SAMSUNG

6+1 CD CHANGER VIDEO CD MINI MINI COMPONENT

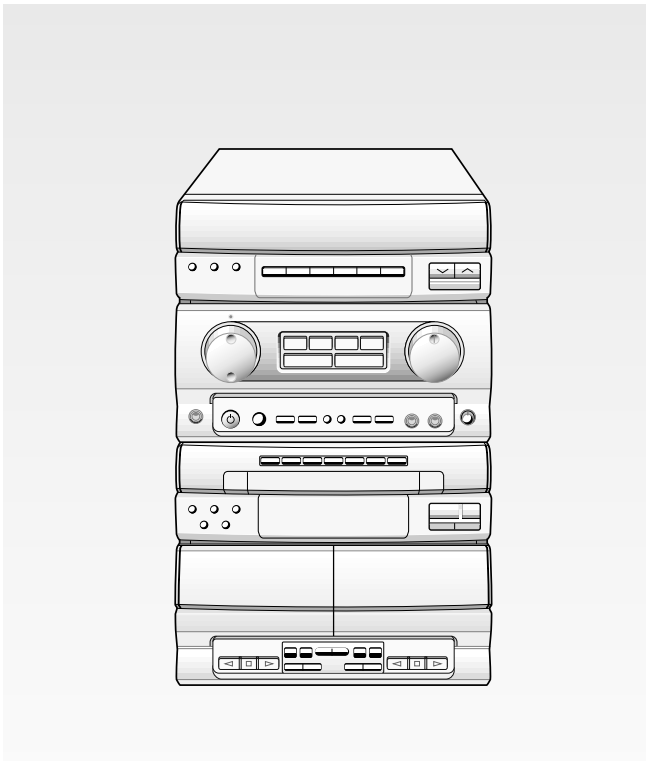
MAX-673V

SERVICE Manual

This service manual is based on Model MAX-670 (Code No. AH68-20108A).
The differences as compaired with Model MAX-670.

- Video CD is added.

6+1 CD CHANGER MINI COMPONENT



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Code No. AH68-20134A

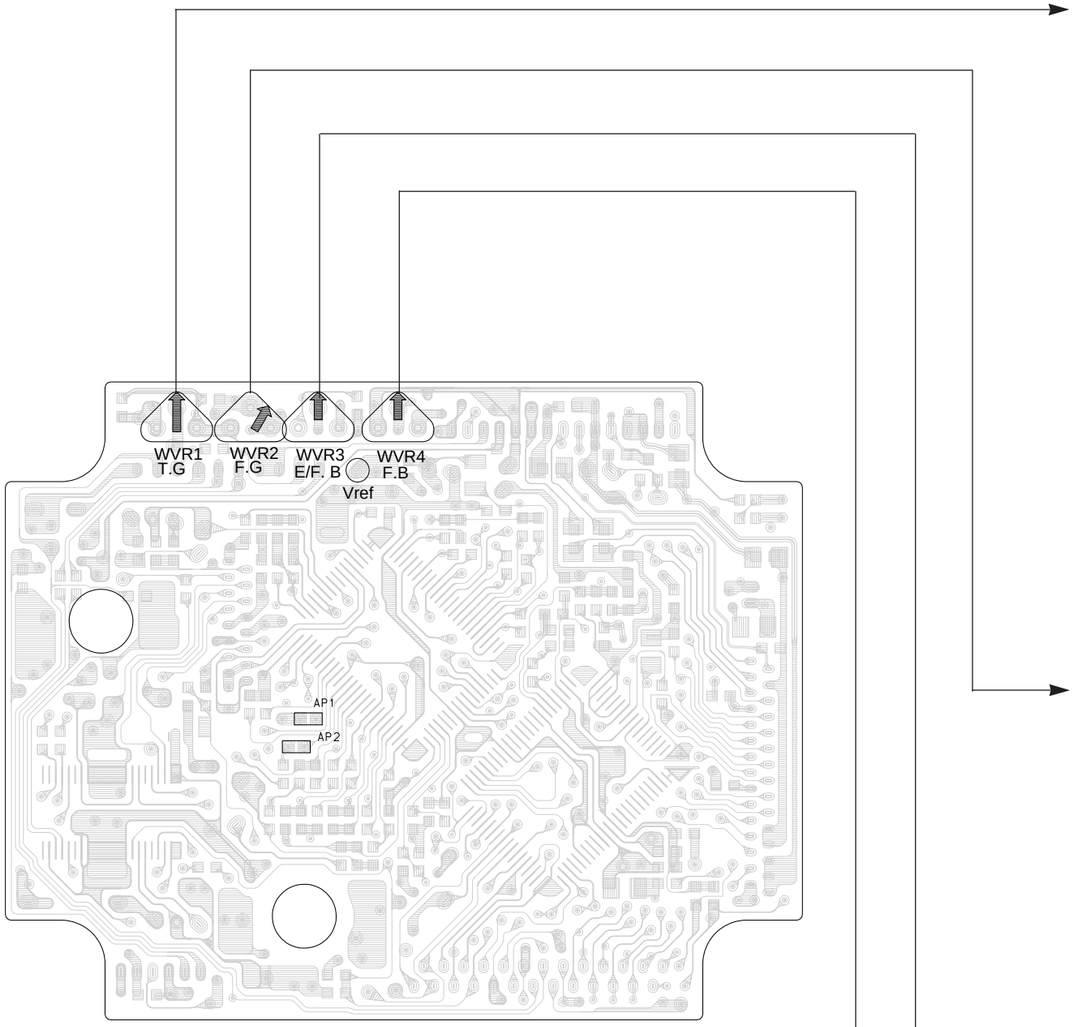
1. Product Specifications

General		Power source Power consumption Dimensions (mm)	220V 280W 270(W) x 317(H) x 333(D)
Amp		Power output Total harmonic distortion Frequency range Signal to noise ratio Channel separation Input sensitivity	90W/CH(6Ω) (T.H.D 1%) 10% 20Hz ~ 20kHz 75dB 50dB(1KHz) AUX 400mV
Tuner	FM	Frequency range Usable sensitivity Signal to noise ratio Middle frequency Total harmonic distortion Separation (Stereo)	87.5 ~ 108MHz 1μV 62dB 60dB 0.45% 35dB
	MW	Frequency range Usable sensivity Signal to noise ratio Middle frequency Total harmonic distortion	522 ~ 1611KHz 600μV 40dB 30dB 2%
Cassette Deck		Frequecny range WOW FLUTTER Erasing effect Signal to noise ratio Total harmonic distortion	125Hz ~ 12.5KHz 0.15% 60dB 40dB 2.5%
Compact Disc		Frequency response Signal to noise ratio Channel separation Total harmonic distortion	20Hz ~ 20KHz(¡ 1dB) 95dB(1kHz 0dB) 75dB(1kHz 0dB) 0.05%(1kHz 0dB)

* Specifications are subject to change without notice.

2. Alignment and Adjustment

2-1 CD



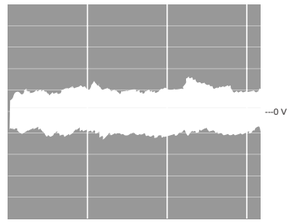
2-1-1 To Adjust FOCUS BIAS(STOP mode)

1. Set Volt/Div of the oscilloscope to DC 100mV.
2. Ground the scope input and set the waveform to 0V, DC range.
3. Connect the GND terminal of the oscilloscope to Vref, and (+) terminal to center of AP1.
4. Set WVR4 to 0mV.

2-1-2 To Adjust Tracking Gain (PLAY mode)

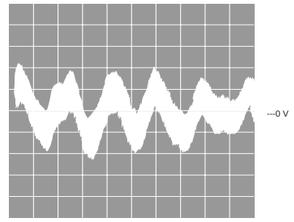
1. Connect the ground terminal of the oscilloscope to Vref and (+) terminal to AP2.
2. Load and play the disc
3. While the disc is running adjust the gain with WVR1 as shown below.

Normal frequency



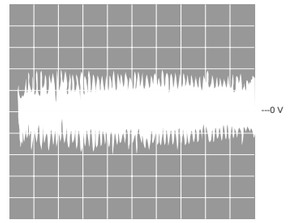
VOLT/DIV : 0.2V
TIME/DIV : 2mS

Low frequency



VOLT/DIV : 0.2V
TIME/DIV : 2mS

High frequency

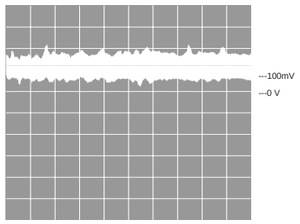


VOLT/DIV : 0.2V
TIME/DIV : 2mS

2-1-3 To Adjust Focus Gain (PLAY mode)

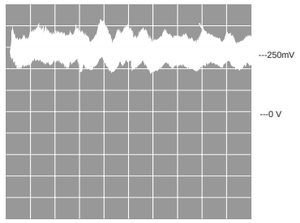
1. Connect the ground terminal of the oscilloscope to Vref and (+) terminal to AP1.
2. Load and play the disc
3. While the disc is running adjust the gain with WVR2 as shown in the following figure.

Normal frequency



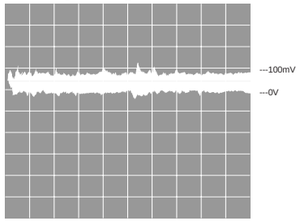
VOLT/DIV : 0.1V
TIME/DIV : 2mS

Low frequency



VOLT/DIV : 0.1V
TIME/DIV : 2mS

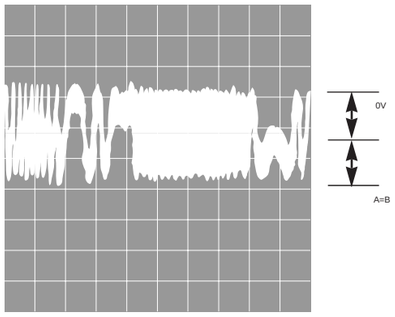
High frequency



VOLT/DIV : 0.1V
TIME/DIV : 2mS

2-1-4 To Adjust E/F Balance (PLAY mode)

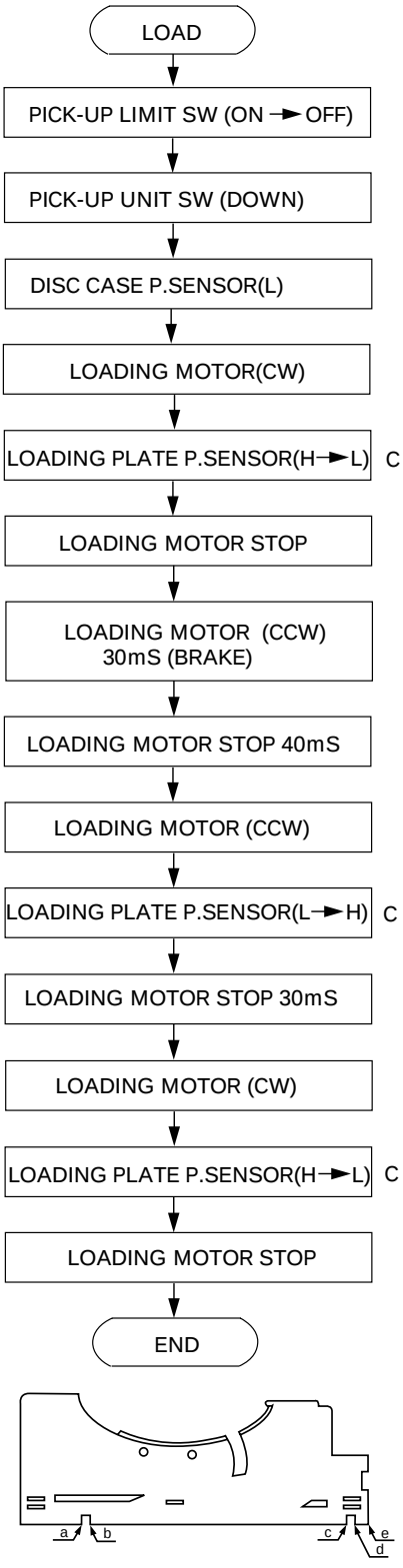
1. Set TIME/DIV of the oscilloscope to 2mS.
2. Set Volt/DIV of the oscilloscope to 0.5V.
3. Ground the scope input and set to DC. and then set the DC range.
4. Connect the ground terminal of the oscilloscope to Vref and (+) terminal to center to AP2.
5. Load and play the disc.
6. Turn WVR1 counterclockwise to the minimum value.
7. Raise WVR3 and adjust the waveform so that its middle comes to ground of the oscilloscope (or until the upper half of waveform becomes symmetrical to the bottom half, A=B)
8. Adjust WVR1 (arrow) for normal sound.



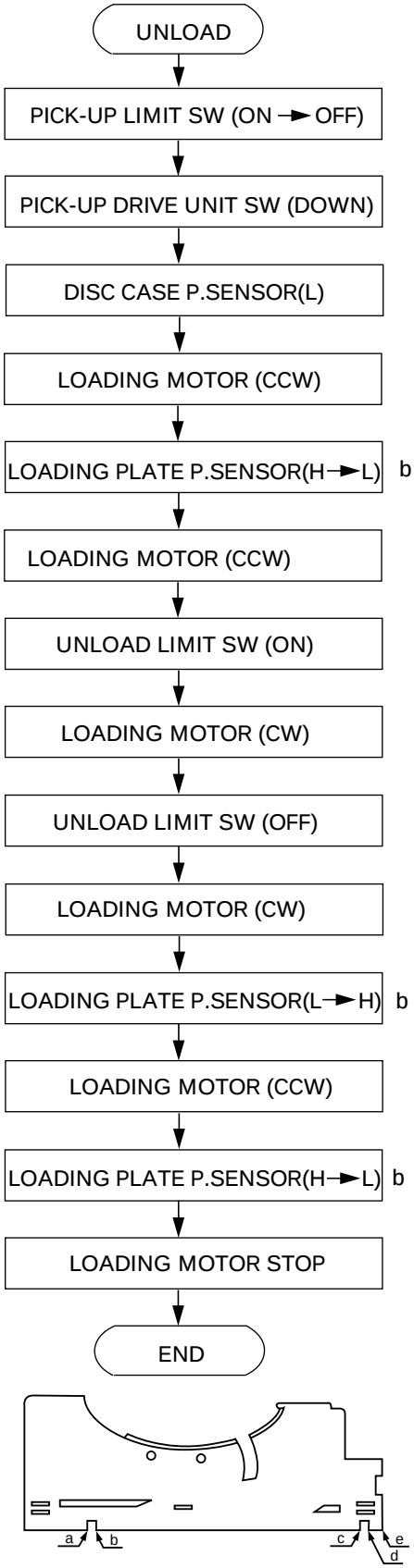
3. Troubleshooting

3-1 Operation of Mechanism

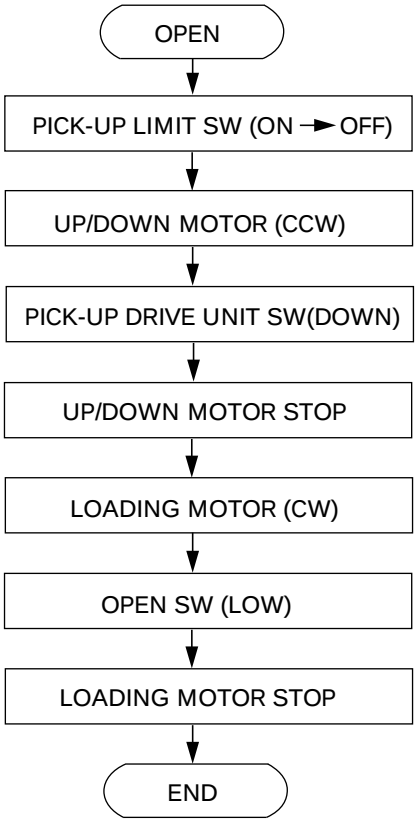
3-1-1 Load Operation



3-1-2 Unload Operation

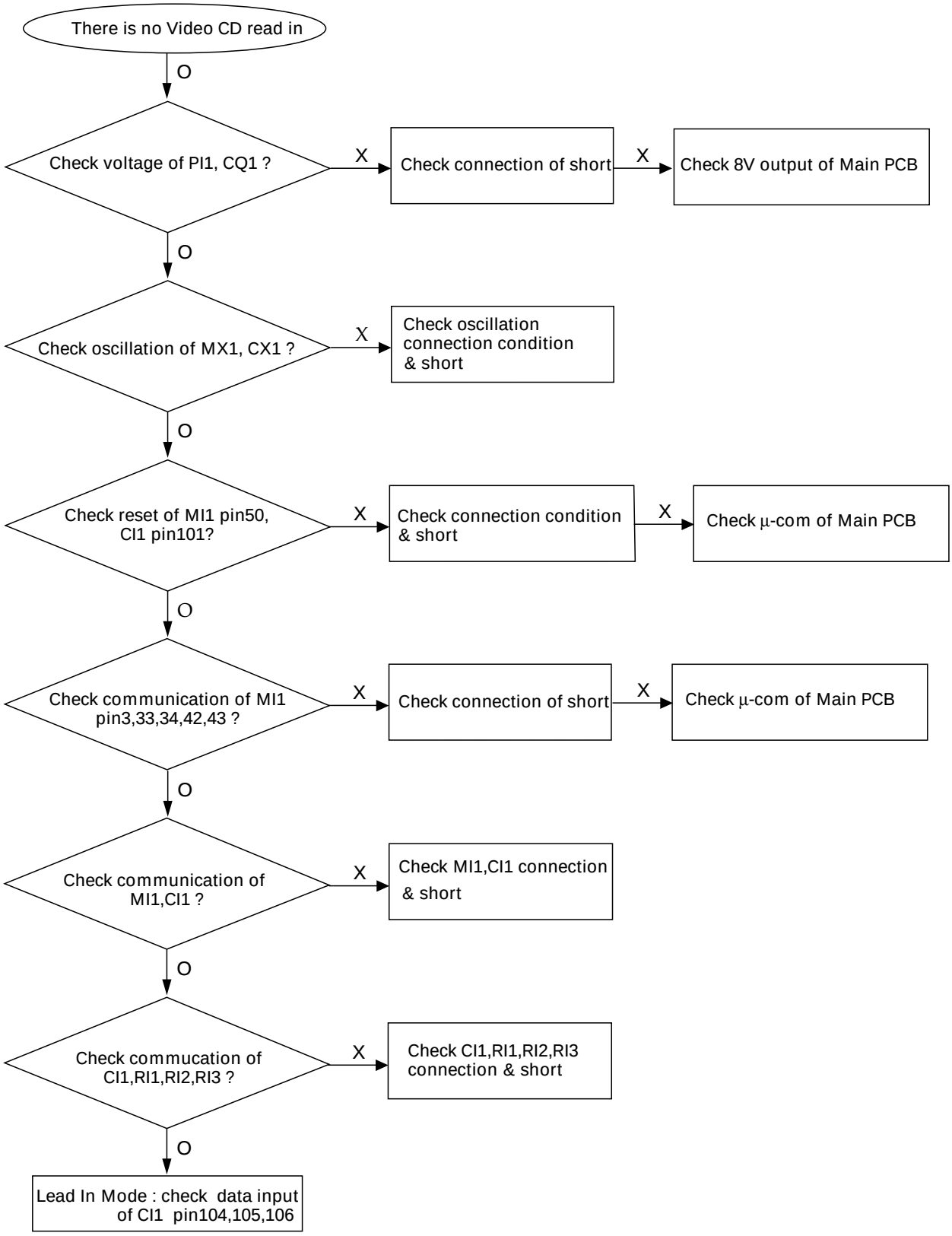


3-1-3 Open Operation

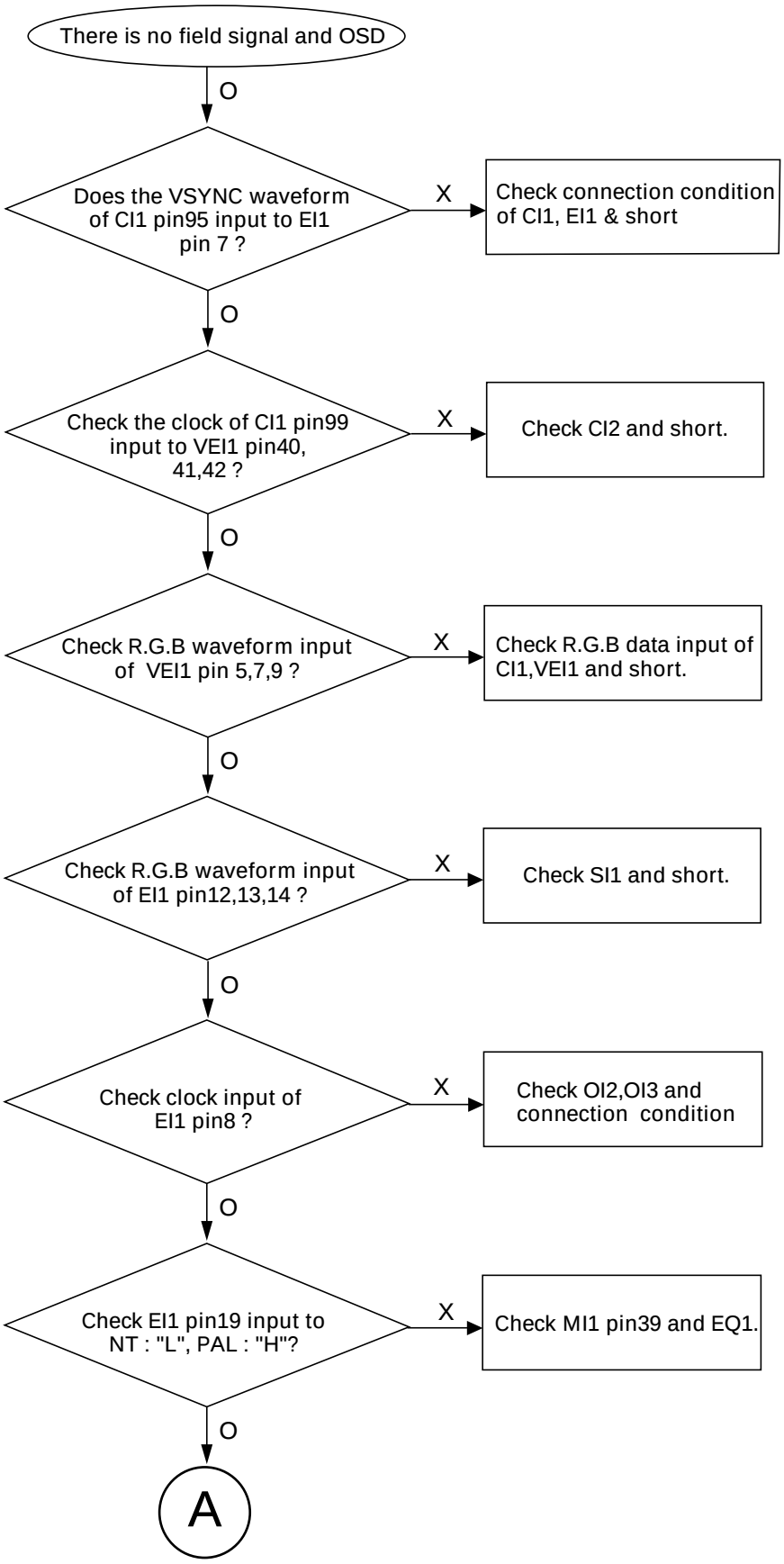


3-2 Video CD

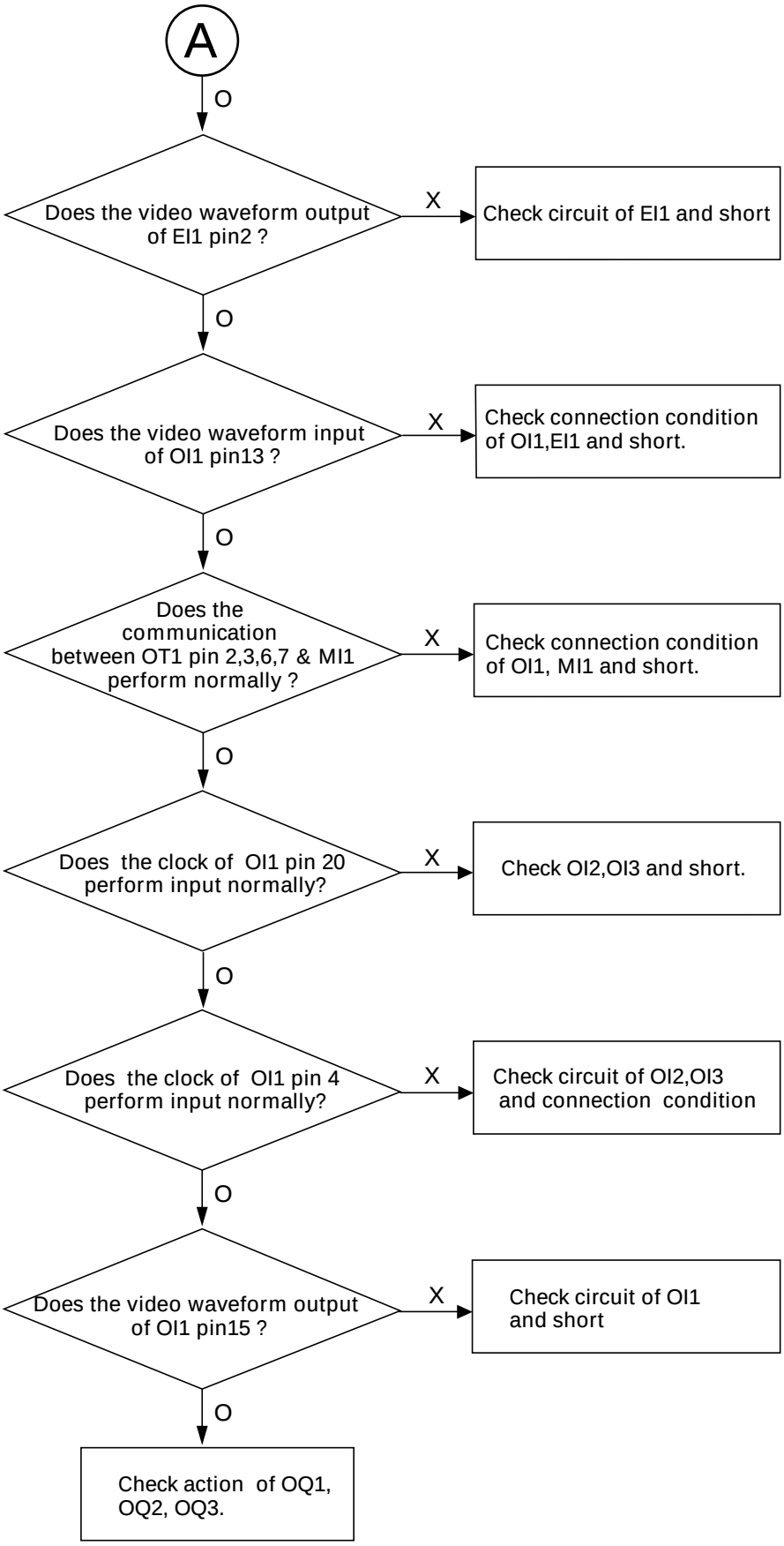
3-2-1 Lead In Malfunction



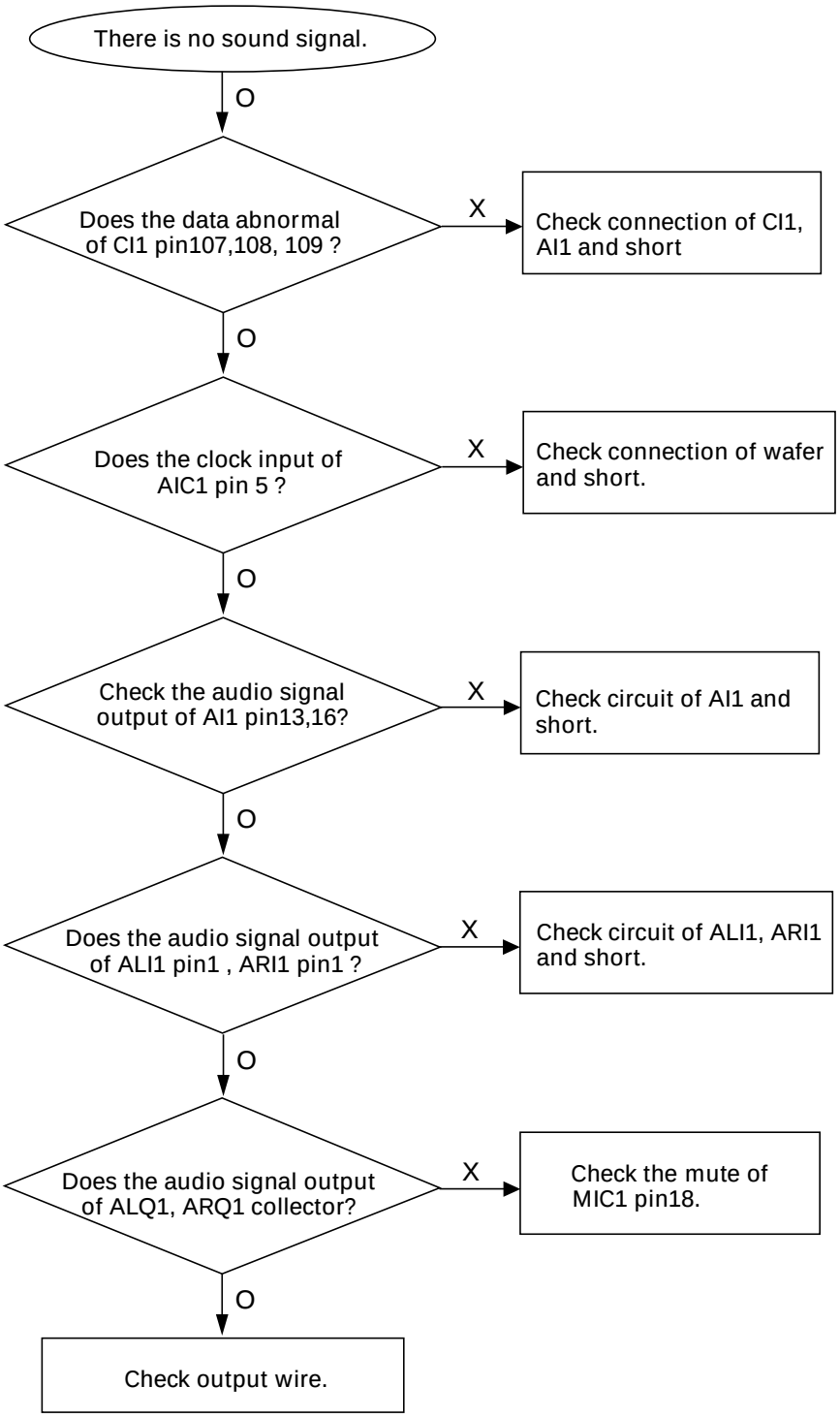
3-2-2 No Field Signal and OSD


There is no field signal and OSD
O
Does the VSYNC waveform of CI1 pin95 input to EI1 pin 7 ?
X
Check connection condition of CI1, EI1 & short
O
Check the clock of CI1 pin99 input to VEI1 pin40, 41,42 ?
X
Check CI2 and short.
O
Check R.G.B waveform input of VEI1 pin 5,7,9 ?
X
Check R.G.B data input of CI1,VEI1 and short.
O
Check R.G.B waveform input of EI1 pin12,13,14 ?
X
Check SI1 and short.
O
Check clock input of EI1 pin8 ?
X
Check OI2,OI3 and connection condition
O
Check EI1 pin19 input to NT : "L", PAL : "H"?
X
Check MI1 pin39 and EQ1.
O
A

3-2-3 No Field Signal and OSD (Continued)


A
O
Does the video waveform output of EI1 pin2 ?
X
Check circuit of EI1 and short
O
Does the video waveform input of OI1 pin13 ?
X
Check connection condition of OI1,EI1 and short.
O
Does the communication between OT1 pin 2,3,6,7 & MI1 perform normally ?
X
Check connection condition of OI1, MI1 and short.
O
Does the clock of OI1 pin 20 perform input normally?
X
Check OI2,OI3 and short.
O
Does the clock of OI1 pin 4 perform input normally?
X
Check circuit of OI2,OI3 and connection condition
O
Does the video waveform output of OI1 pin15 ?
X
Check circuit of OI1 and short
O
Check action of OQ1, OQ2, OQ3.

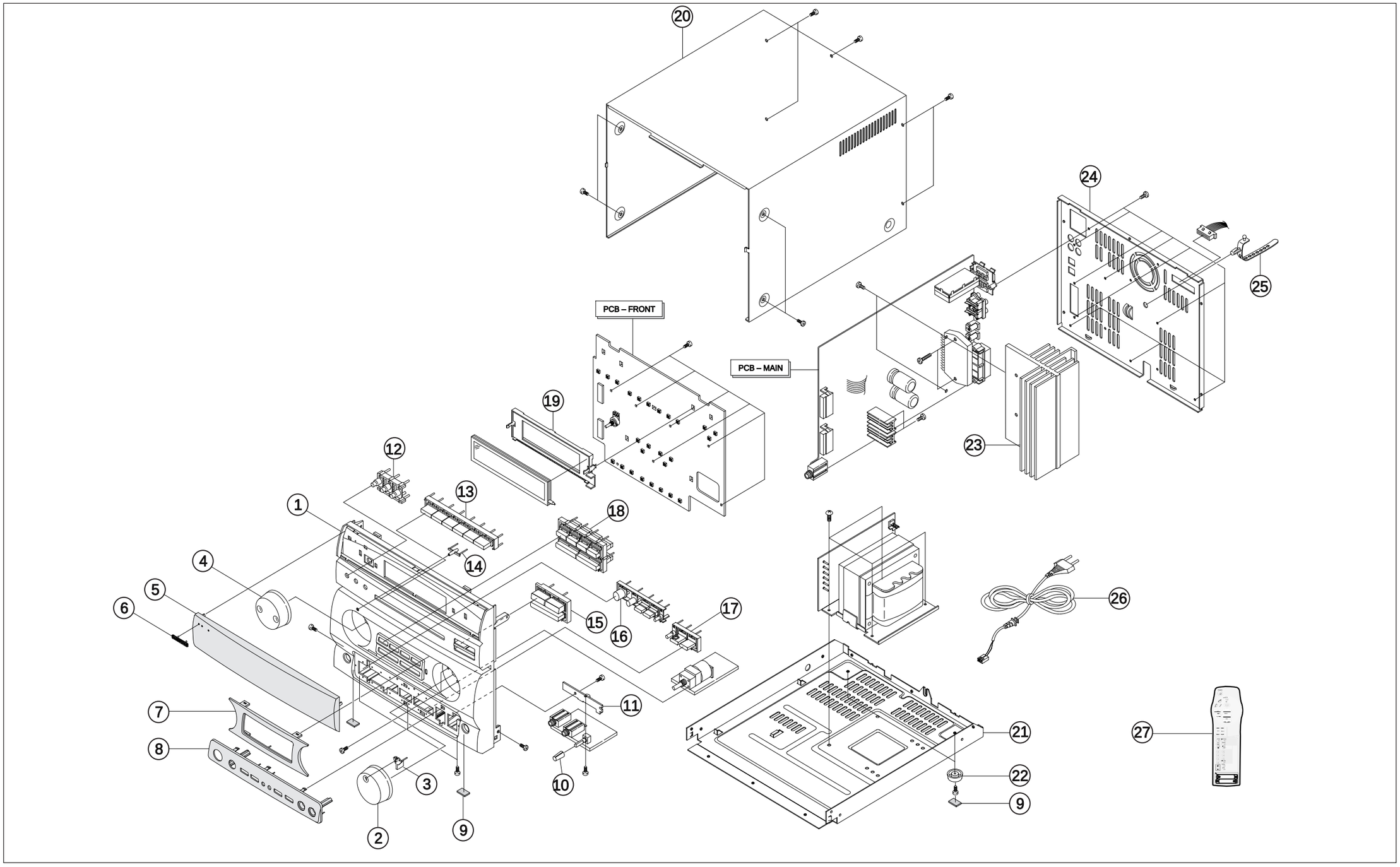
3-2-4 No Sound Signal


There is no sound signal.
O
Does the data abnormal of CI1 pin107,108, 109 ?
X
Check connection of CI1, AI1 and short
O
Does the clock input of AIC1 pin 5 ?
X
Check connection of wafer and short.
O
Check the audio signal output of AI1 pin13,16?
X
Check circuit of AI1 and short.
O
Does the audio signal output of ALI1 pin1 , ARI1 pin1 ?
X
Check circuit of ALI1, ARI1 and short.
O
Does the audio signal output of ALQ1, ARQ1 collector?
X
Check the mute of MIC1 pin18.
O
Check output wire.

4. Exploded Views and Parts List

4-1 Amp and Tuner

4-1-1 Amp and Tuner Exploded View



4-1-2 Parts List

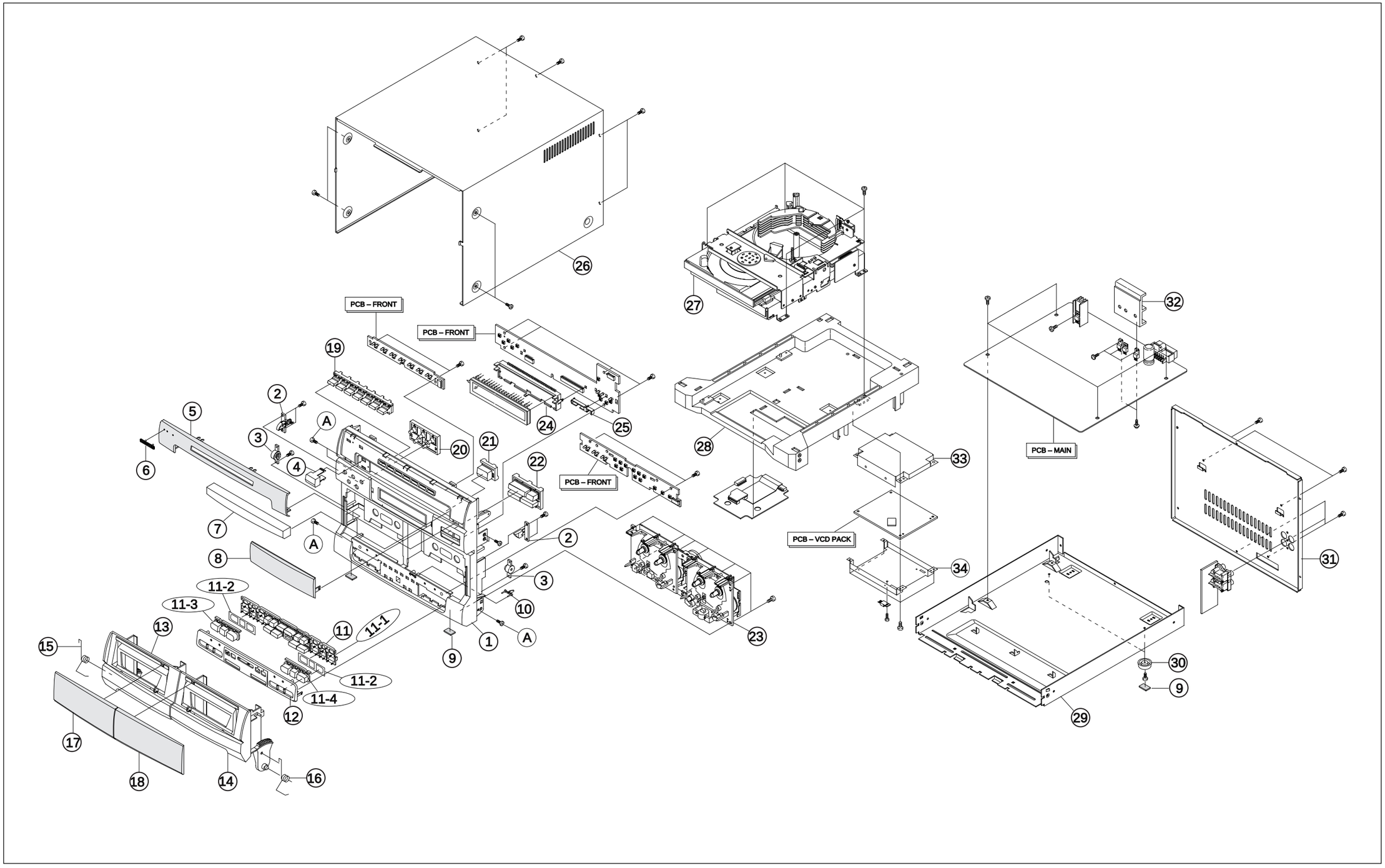
No.	New Parts No.	Description	Specification	Old Parts No.
1	AH64-30355H	CABINET-FRONT	MIPS 94HB BLK	
2	AH64-11027B	KNOB-VOLUME	ABS 94HB BLK	
3	AH67-10107A	LENS-VOLUME	PMMA TRP	
4	AH64-11028B	KNOB-CONTROL	ABS 94HB BLK	
5	AH64-40357C	WINDOW-TUNER	PMMA VIOLET	
6	AH64-70003F	BADGE-BRAND	ALS	
7	AH64-40358A	WINDOW-CENTER	PMMA VIOLET	
8	AH61-20366B	CAP-FRONT	ABS 94HB BLK	
9	AH69-20031A	CUSHION-FOOT	EVA BLK	
10	AH64-11034A	KNOB-ROTARY	ABS 94HB BLK	
11	AH61-10623A	BRKT-MIC	SECC 1.0T	
12	AH64-11029A	KNOB-PRESET	ABS 94HB BLK	
13	AH64-11030A	KNOB-FUNCTION	ABS 94HB BLK	
14	AH67-10108A	LENS-CONTROL	PMMA TRP	
15	AH64-11031C	KNOB-TUNING	ABS 94HB BLK	
16	AH64-11032B	KNOB-POWER	ABS 94HB BLK	
17	AH64-11033B	KNOB-K/CON	ABS 94HB BLK	
18	AH95-50225A	ASSY-H/CENTER	MAX670R,ABS	
19	AH61-20363A	HOLDER-FLT	ABS 94HB BLK	
20	AH64-30214E	CABINET-TOP	V/STEEL GRAY	
21	AH64-30354A	CABINET-BOTTOM	SECC 1.0T	
22	AH64-80031A	FOOT	ABS 94HB BLK	
23	AH62-30100A	HEAT-SINK,M	ALS	
24	AH64-30357C	CABINET-REAR	SECC 0.8T	
25	66634-602-610	CLAMPER-WIRE	NYLON 6.6 BLK	
26	AH39-10002L	POWER-CORD	KLCE-2F 2.15M, 5239.V	A6006-0187
27	AH59-10090A	REMOCON-ASS'Y	-,-,BU2478-2Z, 60, MAX670R/EXP,S	

4-2-2 Parts List

No.	New Parts No.	Description	Specification	Old Parts No.
1	AH64-30358F	CABINET-FRONT	MIPS 94HB BLK	
2	AH95-50001A	ASSY-LATCH	MAX-555	
3	AH61-80030A	DEMPER-ASSY	POM M0.8 BLK	
4	AH61-20369D	CAP-CD	ABS 94HB BLK	
5	AH64-40362E	WINDOW-FRONT	PMMA VIOLET	
6	AH64-70003F	BADGE-BRAND	ALS	
7	AH64-50309C	DOOR-CD	ABS 94HB BLK	
8	AH64-40359A	WINDOW-CD	PMMA VIOLET	
9	AH69-20031A	CUSHION-FOOT	EVA BLK	
10	AH67-10115A	LENS-DECK(LED)	PMMA TRP	
11	AH95-50223A	ASSY-K/DECK	MQ-670Z/DOM,ABS	
11-1	AH64-11037B	KNOB-DECK	ABS 94HB BLK	
11-2	AH67-40019A	FILTER-DECK	PC T0.3	
11-3	AH67-10113B	LENS-DECK(A)	PMMA TRP-Tio2	
11-4	AH67-10114B	LENS-DECK(B)	PMMA TRP-Tio2	
12	AH61-20368C	CAP-FRONT(M)	ABS 94HB BLK	
13	AH64-50307B	DOOR-CASS(A)	ABS 94HB BLK	
14	AH64-50308B	DOOR-CASS(B)	ABS 94HB BLK	
15	AH61-60301A	SPRING-EJECT(A)	SUS PI1.0	
16	AH61-60302A	SPRING-EJECT(B)	SUS PI1.0	
17	AH64-40360C	WINDOW-DOOR(A)	PMMA VIOLET	
18	AH64-40361C	WINDOW-DOOR(B)	PMMA VIOLET	
19	AH64-11038B	KNOB-EXTRA	ABS WHT+MILKY	
20	AH64-11035A	KNOB-PROGRAM	ABS BLK+MILKY	
21	AH64-11036C	KNOB-CD OPEN	ABS 94HB BLK	
22	AH64-11039B	KNOB-CD PLAY	ABS 94HB BLK	
23	AH91-60104A	ASSY-DECK TAPE	MAX670Z,-,-	
24	AH61-20057A	HOLDER-FLT	ABS 94HB BLK	
25	AH61-20370A	HOLDER-CD PLAY	ABS 94HB WHT	
26	AH64-30214E	CABINET-TOP	V/STEEL GRAY	
27	AH59-20001C	DECK-CDP	TN2300N-115,-,CDP,-	17159-0086-00
28	AH61-10624A	CHASSIS-MECHA	ABS 94HB BLK	
29	AH64-30154A	CABINET-BOTTOM	SECC 0.8T	
30	AH64-80031A	FOOT	ABS 94HB BLK	
31	AH64-30359G	CABINET-REAR	SECC 0.8T	
32	AH62-30112A	HEAT-SINK TR	-,ALS -.T4.0	
33	AH63-40157A	SHIELD-TOP	SPTE,T0.4	
34	AH63-40158A	SHIELD-BOTTOM	SPTE,T0.4	

4-2 Cassette Deck and CD Section

4-2-1 Cassette Deck and CD Exploded View



5. Electrical Parts List

Loc No.	New Code No	Description	Specification	Old Code No.
AH90-10719Y		ASSY-PCB FRONT;MAX673RV/CHN,CHINA		
UD2,3	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5		
UD1,4,14	0402-000125	DIODE-RECTIFIER;1N4001,50V,1A,DO-41		A4104-0001
UZD2	0403-000355	DIODE-ZENER;UZ5.1BSB,5.1V,4.97-5.18		12169-404-780
UZD1	0403-000394	DIODE-ZENER;UZP5.6B,5.6V,5.2-6.0V,1		12169-404-110
UQ9	0501-000319	TR-SMALL SIGNAL;-,PNP,1W,TO-92L,TP,		12149-101-590
UQ1	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250MW,TO		12149-301-900
UQ2	0504-000117	TR-DIGITAL;-,NPN,300MW,10K-10K,TO-9		12159-301-840
UQ7,8,11	0504-000144	TR-DIGITAL;KSR2002,PNP,300MW,10K-10		12159-301-340
UQ4,5,6,10	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K-22		
ULD15	0601-000245	LED;ROUND,RED,3.1MM,650NM		12309-001-450
ULD1,2,3,4,5,6,7	0601-001051	LED;ROUND,GRN/RED,3.2MM,563/650NM		
ULD8,9,10,11,12,13,14				
UIC4	1201-000163	IC-OP AMP;4560,SOP,8P,150MIL,DUAL,1		12119-401-300
UIC2	1204-000156	IC-EQUALIZER;BA3834S,DIP,18P,-,PLAS		B4012-0447
UR22	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-153
UR15,17	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X		11018-877-152
UR59	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X		11018-877-104
UR12,13,24,25,26,79,80	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-103
UR72,73,74,75,76,77,78				
UR65,66,67,68,69,70,71				
UR101,128				
UR14,112,113,114	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.		11018-877-102
UR116,121				
UR18,62,63	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X		11018-877-222
UR19	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X		11018-877-272
UR5	2001-000508	R-CARBON;220KOHM,5%,1/8W,AA,TP,1.8X		11018-877-224
UR85,64	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-223
UR84	2001-000554	R-CARBON;270OHM,5%,1/8W,AA,TP,1.8X3		11018-877-271
UR23	2001-000666	R-CARBON;33OHM,5%,1/8W,AA,TP,1.8X3.		11018-877-330
UR20,32,UJW15	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X		11018-877-472
UR33	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP,1.8X		11018-877-682
UR21	2001-000977	R-CARBON;8.2KOHM,5%,1/8W,AA,TP,1.8X		11018-877-822
UR119	2003-000513	R-METAL OXIDE(S);15OHM,5%,1W,AA,TP,		11048-477-150
UJW84,85,87,93,UR122	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012		11119-101-000
UJW76,77,78,79,80,81	2007-000033	R-CHIP;0OHM,5%,1/8W,DA,TP,3216		11118-001-000
UJW82,83,86				
UR103	2007-000221	R-CHIP;1.2KOHM,5%,1/10W,DA,TP,2012		11119-101-122
UR57,58,35,36	2007-000241	R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012		11119-101-152
UR106	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012		11119-101-104
UR104,105	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012		11119-101-103
UR102	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012		11119-101-123
UR95,96,97	2007-000449	R-CHIP;180OHM,5%,1/10W,DA,TP,2012		11119-101-181
UR1,2,3,4,6,7,8,9,10	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012		11119-101-102
UR34,39,111,118,127				
UR123,124,125,126				
UR31,37	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012		11119-101-222
UR38,98	2007-000518	R-CHIP;2.7KOHM,5%,1/10W,DA,TP,2012		11119-101-272

Loc No.	New Code No.	Description	Specification	Old Code No.
UR11,92,93,94,86,87,88	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012		11119-101-221
UR27,28,29,30,45,46	2007-000642	R-CHIP;270OHM,5%,1/10W,DA,TP,2012		11119-101-270
UR47,48,51				
UR52,55,56,89,90,91				
UR49,50,53,54	2007-000822	R-CHIP;390OHM,5%,1/10W,DA,TP,2012		11119-101-391
UR40,42,99,108	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012		11119-101-472
UR41	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012		11119-101-682
UR107	2007-001201	R-CHIP;820OHM,5%,1/10W,DA,TP,2012		11119-101-821
UC3,4	2201-000223	C-CERAMIC,DISC;12PF,5%,50V,NPO,5.0X		11407-057-120
UC1,2	2201-000423	C-CERAMIC,DISC;27PF,5%,50V,NPO,5.0X		11407-057-270
UC29,15,30	2201-000565	C-CERAMIC,DISC;47nF,20%,50V,Y5V,12.		11417-344-473
UC6	2202-000807	C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25		11448-010-223
UC43,19,7	2202-000854	C-CERAMIC,MLC-AXIAL;47NF,0.3,50V,Y5		
UC34,UC45	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5		
UC5,31	2203-000844	C-CERAMIC,CHIP;39NF,10%,50V,X7R,201		11129-019-393
UC42	2203-001105	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,20		11129-004-682
UC35	2203-001214	C-CERAMIC,CHIP;8.2NF,10%,50V,X7R,20		11129-004-822
UC22,23,24,41	2301-000375	C-FILM,PEF;100NF,5%,50V,11X12.5X6.5		11505-713-104
UC8,13,14,20,32	2401-000244	C-AL;100UF,20%,10V,GP,6.3*7,2.5MM,T		11608-152-104
UC17,18	2401-000475	C-AL;10UF,20%,50V,GP,5*11,2MM,		11608-106-100
UC39,44	2401-000918	C-AL;22UF,20%,16V,GP,5X7,5,-		
UC12	2401-001572	C-AL;47UF,20%,50V,GP,6.3*11,2.5MM,		11608-106-470
UC36,37	2401-001893	C-AL;100UF,20%,16V,-,6.3X7MM,5,TP		
UC38	2401-001904	C-AL;10UF,20%,16V,-,4X7MM,5,TP		
UC33	2401-001931	C-AL;220NF,20%,50V,-,4X7MM,5,TP		
UC10	2401-002180	C-AL;2.2UF,0.2,50V,GP,5X11,5MM,TP		
UC9	2409-000123	C-EDL;47000UF,4UA,5.5V,-,-,5MM,BK		B1104-0540
UX2	2801-001382	CRYSTAL-UNIT;12MHZ,50PPM,28-AAM,10P		A1280-0017
UX1	2801-001394	CRYSTAL-UNIT;32.768KHZ,20PPM,28-AAY		14539-502-350
USW1,2,3,4,5,6,7,8	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X		13559-901-100
USW9,10,11,12,13,14,15,16				
USW17,18,19,20,21,22,23				
USW24,25,26				
USW27	3406-000162	SWITCH-ROTARY;5V,50MA,SPDT,20MM		A3012-0018
CCW1,2	3711-002581	CONNECTOR-HEADER;WALL,20P,1R,1.5MM,		
UIC5	AC14-12001G	IC;KA78L05,T,-		
VFD	AH07-20045B	VF-DISPLAY;SVA-16LL03,-,141.5X41.0,		
UIC1	AH09-10061A	IC-MCU;LC866224-XXXX,100P,QFP,8BIT		
REMOCON EYE	AH59-60001J	MODULE-REMOCON;GP1U271R,38KHZ,-,MES		B1294-0043
	AH61-20363A	HOLDER-FLT;-,ABS,94HB,BLK,-,MAX670R		
UD13	0402-000125	DIODE-RECTIFIER;1N4001,50V,1A,DO-41		A4104-0001
UQ3	0501-000407	TR-SMALL SIGNAL;-,NPN,800MW,TO-92,-		12149-401-150
UR44	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X		11018-877-222
UC25	2203-000844	C-CERAMIC,CHIP;39NF,10%,50V,X7R,201		11129-019-393
UC27,28	2203-001619	C-CERAMIC,CHIP;27PF,5%,50V,NPO,2012		
UC26	2401-000244	C-AL;100UF,20%,10V,GP,6.3*7,2.5MM,T		11608-152-104
UX3	2802-000158	RESONATOR-CERAMIC;4MHZ,0.5%,TP,10.0		14534-504-043
UIC3	AH09-10060H	IC-MCU;MSM6656A-662RS,18P,DIP,8BITS		
UD5,8	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5		

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RC1,2	2201-000520	C-CERAMIC,DISC;4.7NF,+80-20%,400VAC		11469-501-070
FUSE1,3,4	3601-000248	FUSE-FERRULE;250V,2A,TIME LAG,GLASS		14709-241-250
RF1,3,4	3602-000147	FUSE-CLIP;250V,7.5A,30MOHM		13164-101-913
RCW3	3708-001044	CONNECTOR-FPC/FC/PIC;5P,1.5MM,STRAI		
RCW1	3711-000190	CONNECTOR-HEADER;1WALL,2P,1R,7.92MM		13349-156-020
RCW2	3711-000588	CONNECTOR-HEADER;BOX,10P,1R,2.5MM,S		13349-103-103
POWER TRANS	AH26-80140V	TRANS-POWER;EI85.8X57,110/220V,60/5		
RL1,2	AH27-10001F	COIL-CHOKE;27UH,K,Q30,-,-,DR(6.5*7.		12429-010-330
AH90-10719Z		ASSY-PCB MAIN;MAX673RV/CHN,CHINA		
SZD1,2	0403-000374	DIODE-ZENER;UZ9.1BSC,9.1V,8.89-9.29		12169-404-840
SQ2	0504-000146	TR-DIGITAL;-,PNP,300MW,47K-47K,TO-9		12159-301-760
SQ1,3	0504-000203	TR-DIGITAL;-,NPN,300MW,47K-47K,TO-9		
SIC2	1001-000111	IC-ANALOG SWITCH;GD4066B,BILATERAL		
SIC1	1201-000463	IC-OP AMP;074,SOP,14P,196MIL,SINGLE		
SR43	2001-000857	R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3		11018-877-561
SR42	2003-000502	R-METAL OXIDE(S);150OHM,5%,2W,AA,TP		11048-577-151
SR35,37	2007-000001	R-CHIP;68KOHM,5%,1/10W,DA,TP,2012		11119-101-683
SR41,15	2007-000030	R-CHIP;560OHM,5%,1/10W,DA,TP,2012		11119-101-561
SR23	2007-000241	R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012		11119-101-152
SR34,18	2007-000338	R-CHIP;120KOHM,5%,1/10W,DA,TP,2012		11119-101-124
SR17	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012		11119-101-153
SR30	2007-000457	R-CHIP;18KOHM,5%,1/10W,DA,TP,2012		11119-101-183
SR6,8	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012		11119-101-102
SR19,31,39	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012		11119-101-221
SR5,7,24,10	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012		11119-101-223
SR29,1,2	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012		11119-101-273
SR9	2007-000710	R-CHIP;3.9KOHM,5%,1/10W,DA,TP,2012		11119-101-392
SR13,14,36,38,12	2007-000774	R-CHIP;33KOHM,5%,1/10W,DA,TP,2012		11119-101-333
SR40,28,32				
SR16	2007-000931	R-CHIP;470OHM,5%,1/10W,DA,TP,2012		11119-101-471
SR3,4	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012		11119-101-473
SR21,25				
SR27	2007-001198	R-CHIP;820OHM,1%,1/10W,DA,TP,2012		
SR11,33,22.26	2007-001208	R-CHIP;82KOHM,5%,1/10W,DA,TP,2012		11119-101-823
SC5	2203-000892	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,20		
SC3,4	2401-000459	C-AL;10UF,20%,35V,GP,5*7,2MM,TP		11608-155-103
SC9,10	2401-001538	C-AL;47UF,20%,25V,GP,6X11,2.5MM,-		
SC1,2	2401-001887	C-AL;100NF,20%,50V,-,4X7MM,5,TP		
SC7,8	2401-001955	C-AL;4.7UF,20%,50V,LL,5X11MM,5MM,TP		11608-306-472
SC6	2401-001967	C-AL;470NF,20%,50V,BP,6X11MM,2MM,BK		
PJACK1,2	3722-000342	JACK-DC POWER;2P,-,NI,BLK,#16~22		13333-501-410
OD8	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5		
OD1,2,3,4,5,6,7	0402-000125	DIODE-RECTIFIER;1N4001,50V,1A,DO-41		A4104-0001
OQ3	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250MW,TO		12149-101-520
OQ2,4	0501-000407	TR-SMALL SIGNAL;-,NPN,800MW,TO-92,-		12149-401-150
OQ5,1	0504-000146	TR-DIGITAL;-,PNP,300MW,47K-47K,TO-9		12159-301-760
OQ7	0504-000203	TR-DIGITAL;-,NPN,300MW,47K-47K,TO-9		
OIC1	1201-001024	IC-POWER AMP;STK4221-2,SIP,22P,78MI		
OR24,28	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AA,TP,2.		11018-377-101

Loc No.	New Code No.	Description Specification	Old Code No.
OR27	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X	11018-877-104
OR1,3,5	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X	11018-877-472
OR4	2001-001000	R-CARBON;82KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-823
OR25,26	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4	11018-377-102
OR18,19,20,21	2001-001144	R-CARBON(S);4.7KOHM,5%,1/2W,AA,TP,2	11018-377-472
OR22,23	2003-000690	R-METAL OXIDE(S);4.7OHM,5%,2W,AA,TP	11048-577-479
OR35	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	11119-101-103
OR9	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012	11119-101-123
OR7,15	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	11119-101-102
OR29,30	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	11119-101-222
OR34	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	11119-101-223
OR31,32	2007-000682	R-CHIP;3.3KOHM,1%,1/10W,DA,TP,2012	11119-102-332
OR33	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	11119-101-472
OR11,13	2007-000931	R-CHIP;470OHM,5%,1/10W,DA,TP,2012	11119-101-471
OR10,16,17,8,JW202	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	11119-101-473
OR12,14	2007-001039	R-CHIP;56KOHM,5%,1/10W,DA,TP,2012	11119-101-563
OR6	2007-001208	R-CHIP;82KOHM,5%,1/10W,DA,TP,2012	11119-101-823
OC1,17	2203-000953	C-CERAMIC,CHIP;470PF,5%,50V,NPO,201	11129-004-471
OC9,11	2301-000375	C-FILM,PEF;100NF,5%,50V,11X12.5X6.5	11505-713-104
PC1,2	2401-000022	C-AL;6800UF,20%,50V,GP,30X35MM,10MM	
OC21	2401-000475	C-AL;10UF,20%,50V,GP,5*11,2MM,	11608-106-100
OC27	2401-001538	C-AL;47UF,20%,25V,GP,6X11,2.5MM,-	
OC4,6,19,20	2401-001572	C-AL;47UF,20%,50V,GP,6.3*11,2.5MM,	11608-106-470
OC3,7,25,26	2401-001902	C-AL;100UF,20%,50V,GP,11X6,-,	A1104-0750
OC5	2401-001945	C-AL;330UF,20%,50V,GP,10X20MM,5MM,B	11607-106-331
OC2,8,22,23,18	2401-002180	C-AL;2.2UF,0.2,50V,GP,5X11,5MM,TP	
KIC1	1204-000208	IC-SOUND PROCESSOR;M65840F,SOP,28P,	B4012-0530
KR2,4,6,7,8,12,16,19	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	11119-101-103
KR9,10,11,17	2007-000477	R-CHIP;1MOHM,5%,1/10W,DA,TP,2012	11119-101-105
KR3,5,13,14,15	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	11119-101-472
KC2,3,11,23	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,201	11129-004-103
KC12,13	2203-000295	C-CERAMIC,CHIP;10PF,5%,50V,NPO,2012	11129-009-100
KC5	2203-000892	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,20	
KC4,9	2203-000953	C-CERAMIC,CHIP;470PF,5%,50V,NPO,201	11129-004-471
KC6,7,8,21	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,201	
KC14,15,16	2203-001137	C-CERAMIC,CHIP;68NF,+80-20%,50V,Y5V	11129-004-683
KC10	2203-001551	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,20	
KC22	2401-001897	C-AL;100UF,20%,16V,GP,-,7.5MM,TP	A1104-0096
KC19,20	2401-001975	C-AL;47UF,20%,16V,GP,5X11MM,5,TP	
KC17,18	2401-002180	C-AL;2.2UF,0.2,50V,GP,5X11,5MM,TP	
KX1	2802-000114	RESONATOR-CERAMIC;16MHZ,0.5%,TP,10.	B1283-0043
TD5,6,7,8,ED1,2,3,4,PD9 TD1,2,3,4,ED5,6,7,8	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5	
PD1,2,3	0402-000125	DIODE-RECTIFIER;1N4001,50V,1A,DO-41	A4104-0001
PBD1	0402-000450	DIODE-BRIDGE;PBL403,200V,4.0A,DIP-4	12169-219-330
PBD2	0402-001010	DIODE-BRIDGE;GBU6D,200V,6A,SIP-4	
PZD12	0403-000342	DIODE-ZENER;UZ3.6BSA,3.6V,3.47-3.68	12169-404-770
PZD6,KZD1	0403-000355	DIODE-ZENER;UZ5.1BSB,5.1V,4.97-5.18	12169-404-780
PZD4	0403-000358	DIODE-ZENER;UZ5.6BSB,5.6V,5.46-5.7V	12169-404-790
PZD13	0403-000369	DIODE-ZENER;UZ8.2BM,8.2V,7.9-8.5V,5	12169-403-290

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EZD1,PZD7	0403-000374	DIODE-ZENER;UZ9.1BSC,9.1V,8.89-9.29	12169-404-840
PZD2	0403-000391	DIODE-ZENER;UZP36B,36V,34-39V,1W,DO	A4106-0115
DZD1	0403-000393	DIODE-ZENER;UZP5.1B,5.1V,4.8-5.4V,1	12169-403-330
VZD1,PZD1	0403-000394	DIODE-ZENER;UZP5.6B,5.6V,5.2-6.0V,1	12169-404-110
TZD1	0403-000398	DIODE-ZENER;UZP8.2B,8.2V,7.7-8.7V,1	12169-403-600
TQ6,VQ1,2	0501-000294	TR-SMALL SIGNAL;KSA708,PNP,800MW,TO	12149-101-560
PQ13	0501-000369	TR-SMALL SIGNAL;-,NPN,1W,TO-92L,-,1	12149-301-910
TQ7,9	0501-000392	TR-SMALL SIGNAL;-,NPN,250MW,TO-92,-	12149-301-860
TQ8	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250MW,TO	12149-301-900
PQ12,3,VQ3,4,TQ5	0501-000407	TR-SMALL SIGNAL;-,NPN,800MW,TO-92,-	12149-401-150
PQ1	0502-000304	TR-POWER;-,NPN,1W,TO-126,TP,60-400	12149-401-900
PQ2	0502-000424	TR-POWER;2SB1566-F,PNP,2W,TO-220FN,	B4052-0086
PQ11	0504-000203	TR-DIGITAL;-,NPN,300MW,47K-47K,TO-9	
DIC2,HIC1,FIC2,EIC2	1201-000163	IC-OP AMP;4560,SOP,8P,150MIL,DUAL,1	12119-401-300
PIC2	1203-000110	IC-NEGA.FIXED REG.;7912,TO-220,3P,-	12109-401-700
PIC3	1203-000242	IC-POSI.FIXED REG.;7812,TO-220,3P,-	12109-401-690
PIC1	1203-000294	IC-POSI.FIXED REG.;7808,TO-220,3P,-	12109-401-730
FIC1	1204-000235	IC-VOLUME CONTROL;TDA7318,SOP,28P,-	B4008-1199
PR1-1,PR2-2,PR3-3,PR4-4	13954-100-310	CERAMIC-PIPE;PI1.4 15MM WHT	
ER3,10	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-153
KR18	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AA,TP,2.	11018-377-101
PR12	2001-000038	R-CARBON;390OHM,5%,1/4W,AA,TP,2.4X6	11018-277-391
PR8	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X	11018-877-152
HR12,13,TR6	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-103
JW179	2001-000302	R-CARBON;10OHM,5%,1/8W,AA,TP,1.8X3.	11018-877-100
VR2	2001-000362	R-CARBON;150OHM,5%,1/8W,AA,TP,1.8X3	11018-877-151
TR20	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.	11018-877-102
ER5,7,DR15,16,TR56,64 VR7,8,ER34,TR66	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X	11018-877-222
ER6,8	2001-000508	R-CARBON;220KOHM,5%,1/8W,AA,TP,1.8X	11018-877-224
TR5,52,PR7,VR5,3,ER18,19 PR6,TR4,7	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-223
TR69	2001-000525	R-CARBON;22OHM,5%,1/4W,AA,TP,2.4X6.	11018-277-220
ER1,2,22,VR9,TR68 VR10,PR30,29	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X	11018-877-472
VR4,6	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3	11018-877-471
TR53	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-473
PR16,TR25	2001-000802	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X	
PR11	2001-000855	R-CARBON;560OHM,5%,1/4W,AA,TP,2.4X6	11018-257-561
ER4,9	2001-000857	R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3	11018-877-561
ER20,21	2001-000869	R-CARBON;56OHM,5%,1/8W,AA,TP,1.8X3.	11018-877-560
FR19,20	2001-000938	R-CARBON;68OHM,5%,1/8W,AA,TP,1.8X3.	11018-877-680
PR13,14	2001-001153	R-CARBON(S);47OHM,5%,1/2W,AA,TP,2.4	11018-377-470
PR15,TR48	2003-000008	R-METAL OXIDE(S);100OHM,5%,1W,AA,TP	11048-477-101
PR2	2003-000616	R-METAL OXIDE(S);27OHM,5%,2W,AA,TP,	11048-577-270
VR1 VR11	2003-000674	R-METAL OXIDE(S);39OHM,5%,1W,AA,TP,	11048-477-390
PR3,4	2003-000690	R-METAL OXIDE(S);4.7OHM,5%,2W,AA,TP	11048-577-479
ER24	2003-000710	R-METAL OXIDE(S);47OHM,5%,2W,AA,TP,	11048-577-470
PR1	2003-000780	R-METAL OXIDE(S);68OHM,5%,3W,AA,TP,	11048-677-680

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JW195,196,197,198 JW199,230,204,205 JW206,207,209,208,223 JW210,211,212,213,214,215	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	11119-101-000
TR59	2007-000030	R-CHIP;560OHM,5%,1/10W,DA,TP,2012	11119-101-561
ER26,29,FR15,18	2007-000241	R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012	11119-101-152
TR2,22,23,24,FR11,13 ER27,28,TR58	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	11119-101-104
TR61	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	11119-101-101
TR9,15,16,17,18,35,36,67 TR51,PR5	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	11119-101-103
TR28,HR17	2007-000308	R-CHIP;10OHM,5%,1/10W,DA,TP,2012	11119-101-100
TR8,PR17	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012	11119-101-123
ER33,TR34,63	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	11119-101-153
TR14,31	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	11119-101-102
DR14	2007-000477	R-CHIP;1MOHM,5%,1/10W,DA,TP,2012	11119-101-105
HR2,6,TR1,19,39 TR40,FR1,4,5,7,16,17 ER32,DR18,19,21,22	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	11119-101-222
KR50	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	11119-101-222
TR30	2007-000518	R-CHIP;2.7KOHM,5%,1/10W,DA,TP,2012	11119-101-272
TR27,65	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012	11119-101-221
TR32,33,ER35	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	11119-101-223
TR37	2007-000593	R-CHIP;22OHM,5%,1/10W,DA,TP,2012	11119-101-220
TR55,38,ER16,17	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012	11119-101-332
ER25,30,FR9,10,TR45,PR9	2007-000710	R-CHIP;3.9KOHM,5%,1/10W,DA,TP,2012	11119-101-392
DR10,HR3,7	2007-000774	R-CHIP;33KOHM,5%,1/10W,DA,TP,2012	11119-101-333
TR29	2007-000822	R-CHIP;390OHM,5%,1/10W,DA,TP,2012	11119-101-391
FR2,3,6,8	2007-000830	R-CHIP;39KOHM,5%,1/10W,DA,TP,2012	11119-101-393
ER11,12,TR12,21,PR33	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	11119-101-472
DR12,13,17,20,ER13 HR1,4,5,8,9,16	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	11119-101-473
TR46,47,PR10	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	11119-101-682
TR62	2007-001133	R-CHIP;68OHM,5%,1/10W,DA,TP,2012	11119-101-680
ER14,15,TR13,49,50	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	11119-101-822
DR11	2007-001208	R-CHIP;82KOHM,5%,1/10W,DA,TP,2012	11119-101-823
EVR1	2101-000274	VR-ROTARY;5KOHM,20%,1/20W,SIDE	B1050-0041
TVR2	2103-000291	VR-SEMI;20KOHM,30%,1/10W,SIDE	11249-102-043
TVR1	2103-000493	VR-SEMI;5KOHM,30%,1/10W,SIDE	11249-102-023
VR13	2109-000109	VR-MOTOR;50KOHM,20%,1/20W,SIDE	B1050-0013
EC26,27	2201-000300	C-CERAMIC,DISC;1NF,20%,50V,Y5T,4X4,	11417-329-102
PC21,TC8,28	2201-000565	C-CERAMIC,DISC;47nF,20%,50V,Y5V,12.	11417-344-473
TC39,DC13,17	2203-000192	C-CERAMIC,CHIP;100NF,+80-20%,50V,Y5	11129-001-104
FR12,14,TC6	2203-000239	C-CERAMIC,CHIP;100PF,5%,50V,NPO,201	11129-009-101
DC11,19	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,201	11129-004-103
FC14,15,16,17	2203-000347	C-CERAMIC,CHIP;150NF,10%,50V,NPO,20	A1100-0988
TC43	2203-000408	C-CERAMIC,CHIP;180PF,5%,50V,NPO,201	11129-008-181
DC14,18,TC36,37	2203-000495	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,20	11129-004-222
HC5,8,FC1,2,3,4	2203-000595	C-CERAMIC,CHIP;220PF,5%,50V,NPO,201	11129-001-221
TC4,14,40	2203-000609	C-CERAMIC,CHIP;22NF,10%,50V,X7R,201	11129-004-223

Loc No.	New Code No.	Description Specification	Old Code No.
TC3	2203-000648	C-CERAMIC,CHIP;24PF,5%,50V,NPO,2012	11129-009-240
FC24,25	2203-000787	C-CERAMIC,CHIP;330PF,5%,50V,NPO,201	
TC22,23	2203-000802	C-CERAMIC,CHIP;33NF,10%,50V,X7R,201	11129-001-333
PC3,4,8,9,10,17,19,20	2203-000844	C-CERAMIC,CHIP;39NF,10%,50V,X7R,201	11129-019-393
TC19	2203-000892	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,20	
DC12,16	2203-000919	C-CERAMIC,CHIP;470NF,+80-20%,16V,Y5	
DC24	2203-000953	C-CERAMIC,CHIP;470PF,5%,50V,NPO,201	11129-004-471
TC13,41,29	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,201	
DC22,DC15,TC2	2203-001137	C-CERAMIC,CHIP;68NF,+80-20%,50V,Y5V	11129-004-683
TC20	2203-001223	C-CERAMIC,CHIP;820PF,10%,50V,X7R,20	A1100-0023
TC44,16	2203-001517	C-CERAMIC,CHIP;15PF,5%,50V,NPO,2012	
DC20,21	2203-001524	C-CERAMIC,CHIP;47PF,5%,50V,NPO,2012	
TC10,EC25	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,2012	
DC23	2203-001550	C-CERAMIC,CHIP;1.2NF,10%,50V,X7R,20	
FC12,13	2203-001551	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,20	
TC17	2203-001611	C-CERAMIC,CHIP;22PF,5%,50V,NPO,2012	
EC4	2301-000449	C-FILM,PEF;47NF,10%,50V,8X11X4.5MM,	
EC7,17,TC12,27	2401-000419	C-AL;10UF,20%,16V,GP,5X11,5,-	
TC33	2401-000438	C-AL;10UF,20%,25V,GP,5*11,2MM,	11608-104-103
EC28,29	2401-000459	C-AL;10UF,20%,35V,GP,5*7,2MM,TP	11608-155-103
TC24	2401-000795	C-AL;220UF,20%,16V,GP,8X11.5,3.5MM,	
PC12,TC45	2401-001019	C-AL;3.3UF,20%,50V,GP,4X7,1.5MM,	
PC13	2401-001413	C-AL;470UF,20%,35V,GP,10X20,5MM,	11609-402-130
HC1,2	2401-001538	C-AL;47UF,20%,25V,GP,6X11,2.5MM,-	
EC11,22,VC1,KC22	2401-001895	C-AL;100UF,20%,16V,GP,6.3X11MM,2.5M	
DC7,8,9,10,EC8	2401-001912	C-AL;1UF,20%,50V,GP,5X11MM,2MM,BK	
EC14	2401-001917	C-AL;1UF,20%,50V,-,5X7MM,5,TP	
HC3,4,TC21,31,32,34,35			
EC9,10,12,13	2401-001919	C-AL;2.2UF,20%,50V,-,4X7MM,5,TP	
FC6,7,9			
FC5,10,11,18,19			
EC15,16			
FC22,23	2401-001938	C-AL;22UF,20%,25V,GP,5X11MM,2MM,BK	
DC1,2,3,5	2401-001940	C-AL;3.3UF,20%,50V,LL,5X11MM,5MM,TP	11608-306-332
PC14	2401-001942	C-AL;3300UF,20%,35V,GP,18X35.5MM,7.	11607-105-332
PC5	2401-001945	C-AL;330UF,20%,50V,GP,10X20MM,5MM,B	11607-106-331
PC11,15,16,EC6,19,TC25,26	2401-001954	C-AL;4.7UF,20%,50V,GP,5X11MM,5,TP	
EC3,5,23,24,FC20,21	2401-001955	C-AL;4.7UF,20%,50V,LL,5X11MM,5MM,TP	11608-306-472
EC18			
TC30	2401-001968	C-AL;470NF,20%,50V,GP,5X11MM,5,TP	
DC25,26,TC15	2401-001975	C-AL;47UF,20%,16V,GP,5X11MM,5,TP	
FC8,TC18,PC6,7			
PC18,TC42			
VC4	2401-001990	C-AL;10UF,20%,25V,BP,5X11MM,5MM,TP	11608-204-100
TC7	2404-000250	C-TA,CHIP;470NF,20%,25V,-,3216,-,TP	
HL1,2,3	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	12429-411-100
TX3	2801-000734	CRYSTAL-UNIT;7.2MHZ,50PPM,28-AAM,12	14539-501-140
DX1	2802-000158	RESONATOR-CERAMIC;4MHZ,0.5%,TP,10.0	14534-504-043
TX1	2802-000215	RESONATOR-CERAMIC;19KHZ,+-38HZ,-,7.	14539-504-100
TFL1,3	2903-000105	FILTER-CERAMIC;BP,10.7MHZ+-25KHZ	14529-301-753
TFL4	2903-000148	FILTER-CERAMIC;BP,450KHZ+-1KHZ	A1243-0049

Loc No.	New Code No.	Description	Specification	Old Code No.
ZCW1	3708-001045	CONNECTOR-FPC/FC/PIC;15P,1.5MM,STRA		
CMW1,2	3710-000541	CONNECTOR-SOCKET;20P,-,1.25MM,STRAI		
VCW1	3711-000588	CONNECTOR-HEADER;BOX,10P,1R,2.5MM,S		13349-103-103
ECW1	3711-003112	CONNECTOR-HEADER;BOX,8P,1R,2.5MM,-,		
ANT-JACK	3716-000201	TERMINAL-BLOCK;NON SOLDER,4P,4MM,-,		A3059-0006
SPK-JACK	3716-000204	TERMINAL-BLOCK;NON SOLDER,4P,11MM,-		A3059-0017
EJACK1,2,HJACK1	3722-000363	JACK-PHONE;9P,6.4MM,AU,BLK,-		A3040-0115
FJACK1	3722-000383	JACK-RCA;6P/4C,3.5MM,SN,BLK,#16~22		A3040-0241
DIC1	AH14-10007E	IC;M65846FP,SOP,STICK DSP/ECHO		
EIC1	AH14-10007F	IC;M62453SP,DIP,STICK VOCAL FADER/M		
TIC2	AH14-10007G	IC;LC72131,DIP,STICK PLL		
TIC1	AH14-10007H	IC;LA1836,DIP,STICK IF+MPX		
TFL5,6	AH26-10001A	TRANS-IF;FV-AD-BASE19K/38K,LOW PASS		12450-304-040
TL1	AH26-10001E	TRANS-IF;KS940228-09,-,-,7.6X12.0,-		12619-030-005
TL2	AH26-10020A	TRANS-DET;-,7KLL,DET,-,7.8MM,91PF,1		
TML1	AH27-80060A	COIL-OSC;RBW07VB,345UH,AM+RF		
PW1	AH39-20514A	LEAD CONNECTOR-ASSY;-,5264,51088,10		
R-Z CONNECTOR	AH39-20529A	LEAD CONNECTOR-ASSY;-,52305,51044,2		
EW1	AH39-20542A	LEAD CONNECTOR-ASSY;-,5264,51088,8P		
VW1	AH39-20543A	LEAD CONNECTOR-ASSY;-,5264,51088,10		
TO CHASSIS ANT	AH39-50001H	LEAD-FASTEN;RING,1007#24,100MM,BLK		13059-201-103
FEDP	AH40-10025A	TUNER-FM;FTA4-551H,4G,75OHM		
	AH62-30060A	HEAT SINK-CD;AL,-,T1.0,-,-,-,SCM-70		15684-505-820
HEATSINK	AH62-30064D	HEAT SINK;DAT7000,AL,-,ANODIZING,BL		15684-509-730
	AH62-30100A	HEAT SINK-M;-,ALS,-,-,-,-,-,MAX670R		
	AH62-30117A	HEAT SINK-TR;-,ALS,-,T2.0,-,-,-,MAX		
RC1,2	2201-000520	C-CERAMIC,DISC;4.7NF,+80-20%,400VAC		11469-501-070
FUSE1,3,4	3601-000248	FUSE-FERRULE;250V,2A,TIME LAG,GLASS		14709-241-250
RF1,3,4	3602-000147	FUSE-CLIP;250V,7.5A,30MOHM		13164-101-913
RCW3	3708-001044	CONNECTOR-FPC/FC/PIC;5P,1.5MM,STRAI		
RCW1	3711-000190	CONNECTOR-HEADER;1WALL,2P,1R,7.92MM		13349-156-020
RCW2	3711-000588	CONNECTOR-HEADER;BOX,10P,1R,2.5MM,S		13349-103-103
RJW1,9,11,5,8	3811-000389	WIRE-NO SHEATH CU;SPCW,300V,52.4MM,		
POWER TRANS	AH26-80140V	TRANS-POWER;EI85.8X57,110/220V,60/5		
RL1,2	AH27-10001F	COIL-CHOKE;27UH,K,Q30,-,-,DR(6.5*7.		12429-010-330

AH90-10687A ASSY-PCB MAIN;MAX670ZV,CHN

JD1L,1R,2L,2R,3L,3R	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5		
CD2,3,4,6,7,8,LD1				
UD1,2,3,4,6,JD5,6,JW174				
RD3,4,5,10,11	0402-000125	DIODE-RECTIFIER;1N4001,50V,1A,DO-41		A4104-0001
RD20,21,22,23,25	0402-000125	DIODE-RECTIFIER;1N4001,50V,1A,DO-41		A4104-0001
RD26,27				
RD1,2	0402-000151	DIODE-RECTIFIER;1N5392,100V,1.5A,DO		12169-201-140
JZD1	0403-000358	DIODE-ZENER;UZ5.6BSB,5.6V,5.46-5.7V		12169-404-790
UZD1,2	0403-000367	DIODE-ZENER;UZ7.5BSC,7.5V,7.33-7.64		12169-404-820
RZD1,3	0403-000379	DIODE-ZENER;UZP12B,12V,11.4-12.6V,1		12169-403-910
RZD20	0403-000398	DIODE-ZENER;UZP8.2B,8.2V,7.7-8.7V,1		12169-403-600
RQ9,8	0501-000010	TR-SMALL SIGNAL;KSC1008-Y,NPN,80V,6		12149-301-050
RQ23	0501-000294	TR-SMALL SIGNAL;KSA708,PNP,800MW,TO		12149-101-560
LQ1,2,RQ4	0501-000369	TR-SMALL SIGNAL;-,NPN,1W,TO-92L,-,1		12149-301-910

Loc No.	New Code No.	Description	Specification	Old Code No.
RQ21	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250MW,TO		12149-301-900
DQ5L,5R,UQ2,3,4,5	0501-000407	TR-SMALL SIGNAL;-,NPN,800MW,TO-92,-		12149-401-150
CQ1,6,8,3,UQ7	0501-000610	TR-SMALL SIGNAL;-,PNP,1W,TO-92L,TP,		
RQ2,7,22,24	0502-000424	TR-POWER;2SB1566-F,PNP,2W,TO-220FN,		B4052-0086
RQ3	0502-000425	TR-POWER;2SD2395-F,NPN,2W,TO-220FN,		B4052-0087
CQ2,4,7,9	0504-000118	TR-DIGITAL;-,NPN,300MW,22K-22K,TO-9		12159-301-780
DQ1L,1R,UQ8,DQ2				
UQ9				
JQ4L,4R,DQ6L,6R	0504-000122	TR-DIGITAL;-,NPN,300MW,4.7K,TO-92,T		12159-301-790
JQ5,DQ3,4,7,8	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K-22		
JQ2L,2R	0505-000197	FET-SILICON;2SK373Y,N,-,-,-,400MW,T		B4054-0023
DIC2	1001-000111	IC-ANALOG SWITCH;GD4066B,BILATERAL		
UIC4	1003-000293	IC-MOTOR DRIVER;LB1649,DIP,14P,-,-,		
UIC3	1103-001006	IC-EEPROM;93LC46,64X16BIT,DIP,8P,30		
DIC3	1201-000192	IC-OP AMP;4558,SIP,9P,-,DUAL,20V/MV		12119-401-630
JIC1	1201-000364	IC-PREAMP;3442A,QFP,56P,-,DUAL,-,PL		B4012-0417
RIC3	1203-000242	IC-POSI.FIXED REG.;7812,TO-220,3P,-		12109-401-690
RIC4	1203-000276	IC-POSI.FIXED REG.;7805,TO-220,3P,-		12119-601-770
RIC2	1203-000282	IC-POSI.FIXED REG.;7806,TO-220,3P,-		12119-601-830
RIC1,5	1203-000294	IC-POSI.FIXED REG.;7808,TO-220,3P,-		12109-401-730
DIC1	1204-000134	IC-DNR PROCESSOR;KA2271B,DIP,16P,-,		12109-323-990
DR102	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3		11018-877-331
LR1,DR101	2001-000005	R-CARBON;390OHM,5%,1/8W,AA,TP,1.8X3		11018-877-391
JR9	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-153
UR104	2001-000019	R-CARBON(S);10OHM,5%,1/2W,AA,TP,2.4		11018-377-100
RR24	2001-000042	R-CARBON;1KOHM,5%,1/4W,AA,TP,2.4X6.		11018-277-102
RR25,26	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X		11018-877-122
JR1L,1R,UR9,DR2,7	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X		11018-877-104
JR14,DR13,19,25,24,27	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3		11018-877-101
CR1,2,9,18,19,10	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-103
CR16,20,21,UR2,3,4,JR27				
LR3,DR3,14,JR29				
CR5,LR6L,6R,JR16				
DR15L,15R,JR12L	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-123
DR22L,22R				
JR17,18,21L,21R,UR63,64	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.		11018-877-102
UR100,101,102,103				
UR95,96,97,98				
UR113,114,115,116,117				
UR5,8,DR23L,23R	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X		11018-877-222
DR20L,20R				
DR20L,20R				
JR24	2001-000454	R-CARBON;2.2MOHM,5%,1/8W,AA,TP,1.8X		11018-877-225
LR4	2001-000456	R-CARBON;2.2OHM,5%,1/4W,AA,TP,2.4X6		11018-277-229
JR4L,4R,RR21	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X		11018-877-272
UR1	2001-000508	R-CARBON;220KOHM,5%,1/8W,AA,TP,1.8X		11018-877-224
JR7L,7R,RR11	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-223
UR91,92,93,94	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X		11018-877-332
JR8L,8R,CR7,14	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X		11018-877-392
DR21L,21R				

Loc No.	New Code No.	Description	Specification	Old Code No.
DR6L,6R,JR15	2001-000666	R-CARBON;33OHM,5%,1/8W,AA,TP,1.8X3.		11018-877-330
DR8	2001-000702	R-CARBON;39KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-393
CR6,17,22,JR19,20,LR5	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X		11018-877-472
DR10L,10R,4L,4R				
UR81,82,84,86,87,88				
UR90,99,RR1,2,8				
CR13				
DR12,18L,18R	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-473
UR83,85,89				
DR1R,JR6L,6R,25	2001-000802	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X		
DR5L,5R,1L,11				
LR2	2001-000857	R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3		11018-877-561
JR28	2001-000869	R-CARBON;56OHM,5%,1/8W,AA,TP,1.8X3.		11018-877-560
JR22L,22R,RR22	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP,1.8X		11018-877-682
UR6	2001-000894	R-CARBON;6.8OHM,5%,1/8W,AA,TP,1.8X3		11018-877-689
RR5	2001-000975	R-CARBON;8.2KOHM,5%,1/4W,AA,TP,2.4X		11018-277-822
JR10L,11L	2001-000977	R-CARBON;8.2KOHM,5%,1/8W,AA,TP,1.8X		11018-877-822
JR2L,2R	2001-000995	R-CARBON;820OHM,5%,1/8W,AA,TP,1.8X3		11018-877-821
JR3L,3R	2001-001006	R-CARBON;82OHM,5%,1/8W,AA,TP,1.8X3.		11018-877-820
JR26	2001-001077	R-CARBON(S);150OHM,5%,1/2W,AA,TP,2.		11018-377-151
RR4	2001-001138	R-CARBON(S);390OHM,5%,1/2W,AA,TP,2.		11018-377-391
UR104	2001-001146	R-CARBON(S);4.7OHM,5%,1/2W,AA,TP,2.		11018-377-479
CR3,4,11,12,UR62	2001-001178	R-CARBON(S);680OHM,5%,1/2W,AA,TP,2.		11018-377-681
PR9,JW188	2003-000473	R-METAL OXIDE(S);10OHM,5%,3W,AA,TP,		
RR13,10	2003-000479	R-METAL OXIDE(S);120OHM,5%,1W,AA,TP		11048-477-121
RR3,6	2003-000534	R-METAL OXIDE(S);1KOHM,5%,1W,AA,TP,		11048-477-102
RR7	2003-000554	R-METAL OXIDE(S);2.2OHM,5%,1W,AA,TP		11048-477-229
LSR1L,1R	2103-000122	VR-SEMI;100KOHM,30%,1/10W,TOP		11249-102-074
CSR3,4	2103-000171	VR-SEMI;10KOHM,30%,1/10W,TOP		11249-102-034
JSR1R,2R	2103-000290	VR-SEMI;20KOHM,30%,1/10W,TOP		11249-102-044
CSR1,2	2103-000341	VR-SEMI;2KOHM,30%,1/10W,TOP		11249-102-104
JSR3R	2103-000461	VR-SEMI;50KOHM,30%,1/10W,TOP		11249-102-064
JC8L,8R	2201-000202	C-CERAMIC,DISC;10PF,5%,50V,NPO,5.0X		11407-057-100
JC5L,5R	2201-000300	C-CERAMIC,DISC;1NF,20%,50V,Y5T,4X4,		11417-329-102
LC1L,1R	2201-000368	C-CERAMIC,DISC;220PF,10%,50V,SL,6.5		11407-018-221
JC7R	2201-000381	C-CERAMIC,DISC;22NF,20%,50V,Y5V,8.0		11417-344-223
UC5,6	2201-000426	C-CERAMIC,DISC;27PF,5%,50V,SL,4X3.5		11407-017-270
RC1	2201-000520	C-CERAMIC,DISC;4.7NF,+80-20%,400VAC		11469-501-070
JC1L,1R	2201-000601	C-CERAMIC,DISC;560PF,10%,50V,Y5P,5.		11417-318-561
RD9	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,5		11449-010-104
CC3	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5		
UC16	2202-000806	C-CERAMIC,MLC-AXIAL;220PF,10%,50V,Y		11449-518-221
JC7L	2202-000807	C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25		11448010-223
UC3	2202-000854	C-CERAMIC,MLC-AXIAL;47NF,0.3,50V,Y5		
JC3L,4L,4R	2203-000787	C-CERAMIC,CHIP;330PF,5%,50V,NPO,201		
JC10L,10R,25L,25R	2301-000361	C-FILM,PEF;1.2NF,10%,50V,-,5MM,TP		
JC18L,18R,LC2	2301-000365	C-FILM,PEF;1.5NF,10%,50V,5.5X7X2.8M		
LC4	2301-000390	C-FILM,PEF;15NF,10%,50V,6.5X9X3.5MM		
LC5	2301-000404	C-FILM,PEF;2.2NF,10%,50V,5.5X7X3.2M		
JC17L,17R	2301-000412	C-FILM,PEF;22NF,10%,50V,6.5X10.5X4M		

Loc No.	New Code No.	Description Specification	Old Code No.
JC27L,27R	2301-000422	C-FILM,PEF;3.3NF,10%,50V,5.5X7X3MM,	
JC13	2401-000240	C-AL;100UF,20%,10V,GP,6*11MM,5MM,TP	11608-102-104
RC11	2401-000303	C-AL;100UF,20%,25V,GP,6.3*11,2.5MM,	11608-104-104
JC16L,16R,RC5,DC17	2401-000419	C-AL;10UF,20%,16V,GP,5X11,5,-	
UC2,7	2401-000475	C-AL;10UF,20%,50V,GP,5*11,2MM,	11608-106-100
RC14	2401-000847	C-AL;220UF,20%,35V,GP,10X12MM,5MM,T	11608-105-221
RC20	2401-001052	C-AL;3300UF,20%,25V,GP,16*31.5,7.5M	11609-154-332
RC3,6	2401-001364	C-AL;470UF,20%,16V,GP,10X12MM,5MM,T	11608-103-471
RC21	2401-001413	C-AL;470UF,20%,35V,GP,10X20,5MM,	11609-402-130
JC14	2401-001465	C-AL;47UF,20%,10V,GP,5*11,2MM,	11608-102-473
RC22,23	2401-001552	C-AL;47UF,20%,35V,GP,6.3*11,2.5MM,	11608-105-470
DC7,8,UC1	2401-001645	C-AL;680NF,20%,50V,GP,5*11,2MM,	11608-106-688
JC20,DC14,15,CC1 UC9,DC16	2401-001895	C-AL;100UF,20%,16V,GP,6.3X11MM,2.5M	
JC23,RC24,25	2401-001912	C-AL;1UF,20%,50V,GP,5X11MM,2MM,BK	
JC24L,24R,DC13L,13R	2401-001954	C-AL;4.7UF,20%,50V,GP,5X11MM,5,TP	
RC2	2401-001959	C-AL;4700UF,20%,25V,GP,18X35.5MM,7.	A1104-0270
LC3,7	2401-001975	C-AL;47UF,20%,16V,GP,5X11MM,5,TP	
JC9L,9R,11L,11R,12L,12R JC15L,15R,DC1L,1R,2L,2R DC5L,5R,6L,6R,12L,12R UC8,JC22	2401-002180	C-AL;2.2UF,0.2,50V,GP,5X11,5MM,TP	
JC19,DC3,9 RC9	2401-002183	C-AL;220UF,0.2,16V,GP,8X9,5MM,TP	
LL1	2701-000116	INDUCTOR-AXIAL;10UH,10%,4.2X9.8MM	12429-508-100
UX1	2801-001382	CRYSTAL-UNIT;12MHZ,50PPM,28-AAM,10P	A1280-0017
JLPF1L,1R	2909-000210	FILTER-LC;LP,-,1DB,30DB/19KHZ,50DB/	14529-414-050
RFS1,2	3601-000249	FUSE-FERRULE;250V,2A,TIME LAG,GLASS	B3065-0108
RFS1,2	3602-000147	FUSE-CLIP;250V,7.5A,30MOHM	13164-101-913
CFW1	3708-000152	CONNECTOR-FPC/FC/PIC;13P,1.25MM,STR	B6010-0794
CFW3	3708-000274	CONNECTOR-FPC/FC/PIC;34P,1.25MM,STR	B6010-0881
1 DECK	3708-000446	CONNECTOR-FPC/FC/PIC;11P,1.5MM,STRA	B6010-1547
2 DECK	3708-000447	CONNECTOR-FPC/FC/PIC;13P,1.5MM,STRA	B6010-0399
CCW2	3708-001028	CONNECTOR-FPC/FC/PIC;18P,1.25MM,STR	
CFW2	3708-001029	CONNECTOR-FPC/FC/PIC;9P,1.25MM,STRA	
CCW1	3708-001122	CONNECTOR-FPC/FC/PIC;26P,1.25MM,STA	
CSW1	3710-000521	CONNECTOR-SOCKET;20P,-,1.5MM,-,SN	B6010-1816
DD1	3711-000820	CONNECTOR-HEADER;BOX,2P,1R,2.5MM,ST	13349-512-561
P/B HEAD	3711-000903	CONNECTOR-HEADER;BOX,3P,1R,2.5MM,ST	13349-527-502
BIAS,LEVEL,SIGNAL	3711-000907	CONNECTOR-HEADER;BOX,3P,1R,2MM,STRA	13349-119-030
R/P HEAD	3711-001011	CONNECTOR-HEADER;BOX,5P,1R,2.5MM,ST	13349-103-053
CFN3	3809-000183	CABLE-FLAT;30V,80C,300MM,34P,1.25MM	A6032-0054
CCN2	3809-001009	CABLE-FLAT;30V,80C,250MM,18P,1.25MM	
CCW1	3809-001032	CABLE-FLAT;30V,80C,250MM,26P,1.25MM	
MONO WIRE	3811-000121	WIRE-PVC CU;BCWA,300V,100MM,7/0.16M	13049-011-110
RR20	1048-177-333	R-CARBON;RD 1/8 T 333-J	
UIC1	AH09-10061S	IC-MASK ROM;LC86624-XXXX,-,DIP	B4000-0017
JIC2,UIC2	AH14-10007D	IC;NJU3716M,SOP,STICK EXPANDER 16BI	
JLPF2L,2R,3L,3R	AH26-10002X	COIL-TRAP;KS940830-05,BIAS-TRAP,30D	12429-206-102
LL2	AH26-10003C	COIL-TRAP;PCHNS-5371EQJ,BIAS-TRAP,-	12619-577-771

Loc No.	New Code No.	Description	Specification	Old Code No.
VCDN2	AH39-20008P	LEAD-CONNECTOR ASS'Y;5264,5395,2P,2		13078-472-125
VCDN1	AH39-20010L	LEAD-CONNECTOR ASS'Y;5264,5395,3P,3		13078-493-130
CDN1	AH39-20024E	LEAD-CONNECTOR ASS'Y;51004,5295,15P		16439-0255-00
SUB-PCB	AH39-50001E	LEAD-FASTEN;,1007#24,220MM,RED		13059-101-251
RIC5	AH62-30064D	HEAT SINK;DAT7000,AL,-,ANODIZING,BL		15684-509-730
H/SINK	AH62-30112A	HEAT SINK-TR;-,ALS,-,T4.0,BLK ANODI		
AH90-10688A	ASSY-PCB FRONT;MAX670ZV,CHN			
UQ6	0501-000407	TR-SMALL SIGNAL;-,NPN,800MW,TO-92,-		12149-401-150
ULD12,13	0601-000245	LED;ROUND,RED,3.1MM,650NM		12309-001-450
ULD16,17,18,19,20,21	0601-001051	LED;ROUND,GRN/RED,3.2MM,563/650NM		
ULD22,23,24,25,26,27				
ULD28,29,11,30				
ULD1,2,3,5,7,9,14,15				
ULD4,6,8,10				
UR27,33,41	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X		11018-877-122
UR22				
UR28,34,42,43,35	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X		11018-877-152
UR49	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-103
UR11,14,16,17,105,108	2001-000362	R-CARBON;150OHM,5%,1/8W,AA,TP,1.8X3		11018-877-151
UR106,107,60	2001-000362	R-CARBON;150OHM,5%,1/8W,AA,TP,1.8X3		11018-877-151
UR12,13,15,18,109,110	2001-000405	R-CARBON;180OHM,5%,1/8W,AA,TP,1.8X3		
UR111,112,61				
UR32,40,26	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.		11018-877-102
UR36,44	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X		11018-877-222
UR45,59	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X		11018-877-272
UR19	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3		11018-877-221
UR50,51	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-223
UR20,21	2001-000554	R-CARBON;270OHM,5%,1/8W,AA,TP,1.8X3		11018-877-271
UR46	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X		11018-877-392
UR65,66,67,68,69,70,71	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X		11018-877-472
UR72,73,74,75,76,77				
UR78,79,80				
UR52,53,54,55,56,57,58	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.		11018-877-470
UR47,62	2001-000802	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X		
UR23,29,37	2001-000857	R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3		11018-877-561
UR6,10	2001-000869	R-CARBON;56OHM,5%,1/8W,AA,TP,1.8X3.		11018-877-560
UR48	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP,1.8X		11018-877-682
UR24,30,38	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3		11018-877-681
UR25,31,39	2001-000995	R-CARBON;820OHM,5%,1/8W,AA,TP,1.8X3		11018-877-821
USW1,2,3,4,5,6,7	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X		13559-901-100
USW8,9,10,11,12,13,14				
USW15,16,17,18,20,21				
USW22,23,24,25,26,27,28				
USW29,30,31,33				
USW19,32				
CFW4,4-1	3708-000104	CONNECTOR-FPC/FC/PIC;10P,1.25MM,ANG		B6010-0718
CFW1-1	3708-000149	CONNECTOR-FPC/FC/PIC;13P,1.25MM,N,P		B6010-0793
CFW3-1	3708-000272	CONNECTOR-FPC/FC/PIC;34P,1.25MM,ANG		B6010-0880
CFW2-1	3708-000492	CONNECTOR-FPC/FC/PIC;9P,1.25MM,-,SN		B6010-1817

Loc No.	New Code No.	Description	Specification	Old Code No.
CFN1	3809-001007	CABLE-FLAT;30V,80C,200MM,13P,1.25MM		
CFN2	3809-001008	CABLE-FLAT;30V,80C,150MM,9P,1.25MM,		
CFN4	3809-001011	CABLE-FLAT;30V,80C,80MM,10P,1.25MM,		
VFD	AH07-20002Q	V.F.DISPLAY;SVA-16SS04,-,-,AUDIO		A4153-0116
FLT-HOLDER	AH61-20057A	HOLDER-FL;ABS,94HB,BLK,-,MQ460R,		13322-0017-00
AH90-10719Q	ASSY-PCB SUB;MAX673ZV,CHN VIDEO-CD			
VSQ1L,1R	0501-000407	TR-SMALL SIGNAL;-,NPN,800MW,TO-92,-		12149-401-150
VIC1	1201-000163	IC-OP AMP;4560,SOP,8P,150MIL,DUAL,1		12119-401-300
VSR10	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X		11018-877-104
VJW1,2,1L,1R	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012		11119-101-000
VSL2				
VSR9	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012		11119-101-104
VSR1L,1R,3L,3R	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012		11119-101-102
VSR7,8,4L,4R	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012		11119-101-472
VSR2L,2R	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012		11119-101-473
VSC4	2401-000907	C-AL;22UF,20%,16V,GP,5*11,2MM,		11608-103-223
VSC1L,1R,2L,2R,3L,3R	2401-001975	C-AL;47UF,20%,16V,GP,5X11MM,5,TP		
VSCW2	3711-000820	CONNECTOR-HEADER;BOX,2P,1R,2.5MM,ST		13349-512-561
VSCW1	3711-000968	CONNECTOR-HEADER;BOX,4P,1R,2MM,STRA		13349-119-040
VSCW3	3711-003107	CONNECTOR-HEADER;BOX,3P,1R,2.5MM,ST		
VJW3,4	3811-000389	WIRE-NO SHEATH CU;SPCW,300V,52.4MM,		
VSJ1	AH37-20001R	JACK;S-437P-07,YEL/YEL/WHT/RED		
G3AC2-6/C	CD PACK ASSY;6-CD/CKD			
	3809-001015	CABLE-FLAT;30V,80C,100MM,30P,1MM,UL		
WCW5	AH39-20504A	LEAD CONNECTOR-ASSY;-,51004,PHR,6P,		
SW4	AH39-20505A	LEAD CONNECTOR-ASSY;-,51004,GT201,8		
SW3	AH39-20506A	LEAD CONNECTOR-ASSY;-,51004,GT201,8		
	AH39-20545A	LEAD CONNECTOR-ASSY;-,51004,51004,2		
AH90-10320E	ASSY-PCB SUB;MAX-670Z,G3A1			
SW3,4	3711-001136	CONNECTOR-HEADER;BOX,8P,1R,2MM,ANGL		13349-139-080
SW1,2	3711-003162	CONNECTOR-HEADER;NOWALL,8P,1R,2.0MM		
AH90-10640H	ASSY-PCB DECK/CD;G3AC2,6-CD/CKD			
WZD02	0403-000363	DIODE-ZENER;UZ6.8BH,6.8V,6.8-7.2V,5		12169-403-690
WQ10	0501-000279	TR-SMALL SIGNAL;KSA1182,PNP,150MW,S		11139-701-040
WQ2	0501-000323	TR-SMALL SIGNAL;-,PNP,800MW,TO-92,T		12149-202-050
WQ5	0501-000610	TR-SMALL SIGNAL;-,PNP,1W,TO-92L,TP,		
WIC03	1003-000179	IC-MOTOR DRIVER;KA9258D,SOP,28P,-,S		
WIC02	1204-000369	IC-ASP;CXD2500BQ,QFP,80P,-,PLASTIC,		
WIC01	1204-001041	IC-ASP;KA9220B,QFP,80P,-,PLASTIC,6V		
WJW1,2	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012		11119-101-000
AJW10,12				
AJW2,3,4,5,6				
WR1	2007-000068	R-CHIP;470KOHM,5%,1/10W,DA,TP,2012		11119-101-474
WR2,9,18	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012		11119-101-104
WR36,32	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012		11119-101-103
WR12,16	2007-000338	R-CHIP;120KOHM,5%,1/10W,DA,TP,2012		11119-101-124

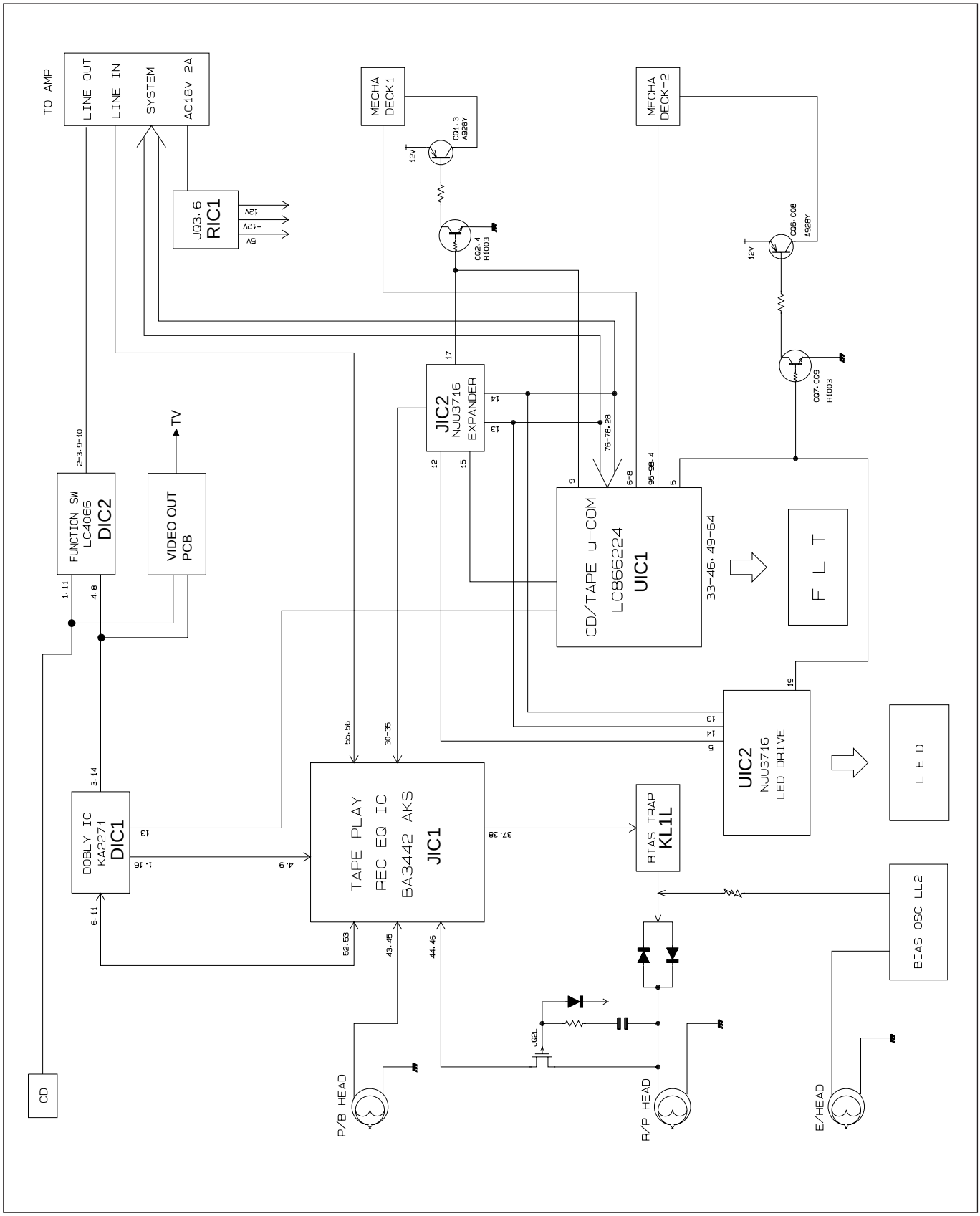
Loc No.	New Code No.	Description	Specification	Old Code No.
WR8,22,23,24	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012		11119-101-123
WR3,33	2007-000395	R-CHIP;150KOHM,5%,1/10W,DA,TP,2012		11119-101-154
WR14	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012		11119-101-153
WR5,29	2007-000444	R-CHIP;180KOHM,5%,1/10W,DA,TP,2012		11119-101-184
WR37	2007-000462	R-CHIP;18OHM,5%,1/10W,DA,TP,2012		11119-101-180
WR10,19,27,AWR1	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012		11119-101-102
WR6	2007-000477	R-CHIP;1MOHM,5%,1/10W,DA,TP,2012		11119-101-105
WR34	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012		11119-101-223
WR25	2007-000593	R-CHIP;22OHM,5%,1/10W,DA,TP,2012		11119-101-220
WR30,31	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012		11119-101-332
AWR3	2007-000766	R-CHIP;330OHM,5%,1/10W,DA,TP,2012		11119-101-331
WR21	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012		11119-101-472
WR11,15	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012		11119-101-473
WR13	2007-001039	R-CHIP;56KOHM,5%,1/10W,DA,TP,2012		11119-101-563
WR17	2007-001130	R-CHIP;68KOHM,5%,1/8W,DA,TP,3216		11118-201-683
WR7	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012		11119-101-822
WR4	2007-001195	R-CHIP;820KOHM,5%,1/10W,DA,TP,2012		11119-101-824
WR26	2007-001213	R-CHIP;82OHM,1%,1/10W,DA,TP,2012		11119-102-820
WR35	2008-000141	R-FUSIBLE;2.2OHM,5%,1/4W,AA,TP,2.6X		11058-277-229
WVR1,2,3,4	2103-000291	VR-SEMI;20KOHM,30%,1/10W,SIDE		11249-102-043
WC3,4,5,20,22,31 AC2,3,4	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5		
WC1,2,10,19,32,33,34,40,44	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,201		11129-004-103
WC13	2203-000417	C-CERAMIC,CHIP;18NF,10%,50V,X7R,201		11129-004-183
WC18,21	2203-000495	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,20		11129-004-222
WC7,28	2203-000802	C-CERAMIC,CHIP;33NF,10%,50V,X7R,201		11129-001-333
WC35,36	2203-000818	C-CERAMIC,CHIP;33PF,5%,50V,NPO,2012		11129-008-330
WC14	2203-000840	C-CERAMIC,CHIP;390PF,5%,50V,NPO,201		
WC23	2203-000892	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,20		
WC8,9,15	2203-000919	C-CERAMIC,CHIP;470NF,+80-20%,16V,Y5		
WC17,30	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,201		
WC24	2203-001026	C-CERAMIC,CHIP;4PF,0.25PF,50V,SL,20		
WC16	2203-001105	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,20		11129-004-682
WC11	2203-001137	C-CERAMIC,CHIP;68NF,+80-20%,50V,Y5V		11129-004-683
WC25	2203-001256	C-CERAMIC,CHIP;8PF,0.25PF,50V,NPO,2		
WC27	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,2012		
WC29	2203-001551	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,20		
WC26,AC1,5	2401-000243	C-AL;100UF,20%,10V,GP,6.3*5,2.5MM,T		11608-152-101
WC12	2401-000419	C-AL;10UF,20%,16V,GP,5X11,5,-		
WC39	2401-000778	C-AL;220UF,20%,10V,GP,6.3X11,2.5MM,		11608-102-224
WC37,38	2401-001934	C-AL;220UF,20%,6.3V,GP,6.3X7,-,		A1104-0749
WC6	2404-000367	C-TA,CHIP;4.7UF,20%,6.3V,-,3216,-,		B1106-0274
FLOW SIDE	2701-000111	INDUCTOR-AXIAL;100UH,10%,2.5X3.4MM		12429-411-101
XX1	2801-000176	CRYSTAL-UNIT;16.9344MHZ,50PPM,28-AA		14539-401-050
WB1,2 WB3,4,5,6,7,8	3301-000325	CORE-FERRITE BEAD;AB,3.2X2.5X1.3MM,		B1144-0034
WCW2	3708-001032	CONNECTOR-FPC/FC/PIC;26P,1.25MM,ANG		
WCW4	3708-001062	CONNECTOR-FPC/FC/PIC;30P,1.0MM,ANGL		
WCW1	3711-000713	CONNECTOR-HEADER;BOX,15P,1R,2.0MM,A		A6010-0524
WCW6	3711-000826	CONNECTOR-HEADER;BOX,2P,1R,2MM,ANGL		13349-139-020

Loc No.	New Code No.	Description	Specification	Old Code No.
WCW5	3711-001061	CONNECTOR-HEADER;BOX,6P,1R,2MM,ANGL		13349-139-061
	A0074-0004	SOLDER-BAR;DONG YANG S63A 30X400		
WIC03	AH62-30047A	HEAT SINK;ETHD,-,T0.5,-,-,-,MAX-555		11124-0061-00
SHILD PLATE	AH63-40019A	SHIELD-PLATE;SPTE,T0.3,-,G3A1,-,		12074-0029-00
CZD1	0403-000344	DIODE-ZENER;UZ3.9B,3.9V,3.7-4.1V,50		12169-403-490
OD1	0407-000101	DIODE-ARRAY;DA204K,20V,100MA,C2-3,S		A4100-0032
EQ2,OQ2,3	0501-000314	TR-SMALL SIGNAL;-,PNP,150MW,SOT-23,		11139-801-022
OQ1,ALQ1,ARQ1	0501-000341	TR-SMALL SIGNAL;-,NPN,200MW,SOT-23,		11139-801-032
CQ1	0502-000425	TR-POWER;2SD2395-F,NPN,2W,TO-220FN,		B4052-0087
AQ2,EQ1	0504-000128	TR-DIGITAL;-,NPN,200MW,22K-22KOHM,S		11139-801-182
AQ1	0504-000156	TR-DIGITAL;KSR2103,PNP,200MW,22K-22		11139-801-101
CI2,3,OI3	0801-000305	IC-CMOS LOGIC;7SU04,INVERTER,SOP,5P		B4004-0199
AI1	1002-000169	IC-D/A CONVERTER;PCM1710U,16BIT,SOP		B4012-0381
VEI1	1002-000172	IC-D/A CONVERTER;KDA0408,8BIT,QFP,4		A4012-0308
RI3	1101-000150	IC-PROM;27C256B,32KX8BIT,DIP,28P,60		
RI1	1105-000141	IC-DRAM;416C256,256K*16BIT,SOJ,40P,		A4000-0083
RI2	1105-000156	IC-DRAM;44C256C,256K*4BIT,SOJ,20P,3		A4000-0063
ALI1,ARI1	1201-000163	IC-OP AMP;4560,SOP,8P,150MIL,DUAL,1		12119-401-300
PI1	1203-000194	IC-POSI.ADJUST REG.;78T05,TO-220,3P		12119-601-800
EI1	1204-000143	IC-ENCODER;MC13077,SOP,20P,-,PLASTI		B4012-0347
CI1	1204-000361	IC-DECODER;CL480,QFP,128P,-,PLASTIC		
OI1	1204-000378	IC-OSD PROCESSOR;KS5514B,DIP,24P,30		
RJ1,JW1	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012		11119-101-000
ER6,7	2007-000221	R-CHIP;1.2KOHM,5%,1/10W,DA,TP,2012		11119-101-122
ALR2,ARR1	2007-000241	R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012		11119-101-152
OR10	2007-000267	R-CHIP;1.8KOHM,5%,1/10W,DA,TP,2012		11119-101-182
OR5,ALR10,ARR10	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012		11119-101-104
RR1,2,3,4,5	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		11119-101-101
RR6,7,8,9,10				
RR11,12,13,PR1,ER11				
CR4,5,6,7,8				
CR9,10,13,14,15				
MR2,3,4,5,6				
CR16				
ER1,2,3,10,CR2	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012		11119-101-103
CR3,ALR6,ARR6	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012		11119-101-103
OR3	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012		11119-101-123
ER4,5,12,OR4	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012		11119-101-102
CR12,ALR9,ARR9				
MR1,CR17,OPR1	2007-000477	R-CHIP;1MOHM,5%,1/10W,DA,TP,2012		11119-101-105
OR2	2007-000565	R-CHIP;220KOHM,5%,1/10W,DA,TP,2012		11119-101-224
OR6,7,8,9,ER8	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012		11119-101-221
CR1	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012		11119-101-332
OR1,ALR1,3,ARR2,5	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012		11119-101-472
ER9,OR13	2007-000931	R-CHIP;470OHM,5%,1/10W,DA,TP,2012		11119-101-471
CR11	2007-000981	R-CHIP;5.6KOHM,5%,1/10W,DA,TP,2012		11119-101-562
ALR8,ARR3	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012		11119-101-682
OR11,12	2007-001166	R-CHIP;75OHM,5%,1/10W,DA,TP,2012		A1020-0121
ALR4,5,7,11,ARR4	2007-001239	R-CHIP;910OHM,5%,1/10W,DA,TP,2012		A1020-0132
ARR7,8,11				
CC3,4,5,7,8	2203-000206	C-CERAMIC,CHIP;100NF,10%,50V,X7R,20		11129-014-104

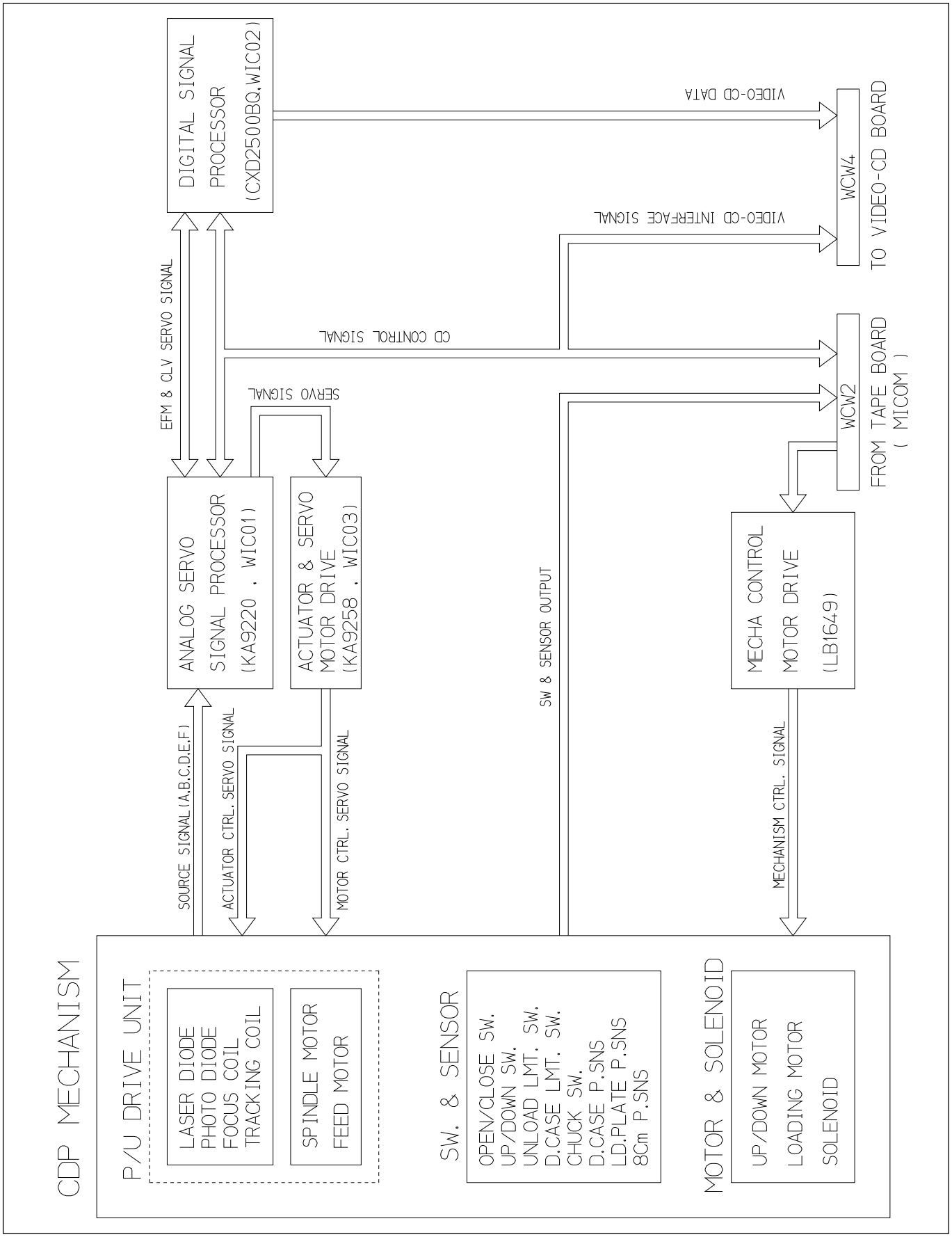
Loc No.	New Code No.	Description	Specification	Old Code No.
CC10,EC1,2,3,6				
EC10,AC2,VEC1,2,3				
GC1,3,4,RC1,2				
PC2,3,4,5,MC3				
RC3,OC8				
OC6	2203-000239	C-CERAMIC,CHIP;100PF,5%,50V,NPO,201		11129-009-101
EC4,7,8,9,OC1	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,201		11129-004-103
OC16,17				
CC1,2	2203-000295	C-CERAMIC,CHIP;10PF,5%,50V,NPO,2012		11129-009-100
ALC2,ARC2	2203-000323	C-CERAMIC,CHIP;12NF,10%,50V,X7R,201		11129-004-123
EC11	2203-000365	C-CERAMIC,CHIP;150PF,5%,50V,NPO,321		11128-001-151
EC5	2203-000408	C-CERAMIC,CHIP;180PF,5%,50V,NPO,201		11129-008-181
ALC3,ARC3	2203-000495	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,20		11129-004-222
MC1,2	2203-000555	C-CERAMIC,CHIP;20PF,5%,50V,NPO,2012		11129-009-200
OC5	2203-000609	C-CERAMIC,CHIP;22NF,10%,50V,X7R,201		11129-004-223
OC2,3	2203-001164	C-CERAMIC,CHIP;68PF,5%,50V,SL,2012,		
OC4	2203-001517	C-CERAMIC,CHIP;15PF,5%,50V,NPO,2012		
EC15	2203-001524	C-CERAMIC,CHIP;47PF,5%,50V,NPO,2012		
OC7,EC12,ALC6,ARC6	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,2012		
ALC4,ARC4	2203-001551	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,20		
OC14,15,CC6,9,PC1	2401-000243	C-AL;100UF,20%,10V,GP,6.3*5,2.5MM,T		11608-152-101
AC1,EC13				
OC11	2401-000407	C-AL;10UF,20%,16V,GP,3.5*5,-,TP		11608-173-100
AC3,4	2401-000588	C-AL;1UF,20%,50V,GP,3*5,1MM,TP		11608-106-109
EC14	2401-000909	C-AL;22UF,20%,16V,GP,5*5,2MM,TP		11608-153-220
OC9	2401-001238	C-AL;4.7UF,20%,25V,GP,3*5,1MM,TP		11608-154-479
OC10	2401-001324	C-AL;470NF,20%,50V,GP,3*5,1MM,TP		11608-106-478
OC12,13	2401-002183	C-AL;220UF,0.2,16V,GP,8X9,5MM,TP		
RC4,ALC5,ARC5	2404-000190	C-TA,CHIP;22UF,20%,16V,-,5832,-,TP		11155-306-220
ALC1,ARC1	2404-000367	C-TA,CHIP;4.7UF,20%,6.3V,-,3216,-,		B1106-0274
OL1,2,EL1,AL1	2703-000001	INDUCTOR-SMD;10UH,10%,2.5X3.2X2MM		11176-600-050
CX1	2801-000286	CRYSTAL-UNIT;40.5MHZ,50PPM,28-AAM,2		A1280-0197
MX1	2802-000108	RESONATOR-CERAMIC;12MHZ,0.5%,BK,10.		14539-503-130
RB1,2,PB1,VB1	3301-000325	CORE-FERRITE BEAD;AB,3.2X2.5X1.3MM,		B1144-0034
RI3	3704-000241	SOCKET-IC;28P,DIP,SN,2.54MM		A3045-0018
SCON1	3708-001062	CONNECTOR-FPC/FC/PIC;30P,1.0MM,ANGL		
PCON1	3711-000903	CONNECTOR-HEADER;BOX,3P,1R,2.5MM,ST		13349-527-502
MI1	AH09-10061D	IC-MCU;LC865032A-XXXX,64P,QFP,8BITS		
SI1	AH14-10004T	IC-ANALOG M/PLEXER;MC14053BD,SOP,TA		
PCON1	AH39-20538A	LEAD CONNECTOR-ASSY;-,5051,5264,3P,		
OI2	0801-001108	IC-CMOS LOGIC;4W53,MULTIPLEXER,SOP,		
GJ4,CJ1,RJ256,SJ1,2	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012		11119-101-000
ALJ1,ARJ1,MPJ1,AMGL2				
ONR1	2007-000477	R-CHIP;1MOHM,5%,1/10W,DA,TP,2012		11119-101-105
OPC1,ONC1	2203-001517	C-CERAMIC,CHIP;15PF,5%,50V,NPO,2012		
ONX1	2801-000155	CRYSTAL-UNIT;14.31818MHZ,50PPM,28-A		A1280-0199
OPX1	2801-000185	CRYSTAL-UNIT;17.734475MHZ,50PPM,28-		A1280-0122
SCON2	3711-000827	CONNECTOR-HEADER;BOX,2P,1R,2MM		13349-119-020
VCON1	3711-000968	CONNECTOR-HEADER;BOX,4P,1R,2MM		13349-119-040
VCON1	AH39-20546A	LEAD CONNECTOR-ASSY;-,51004,51004,4		

6. Block Diagrams

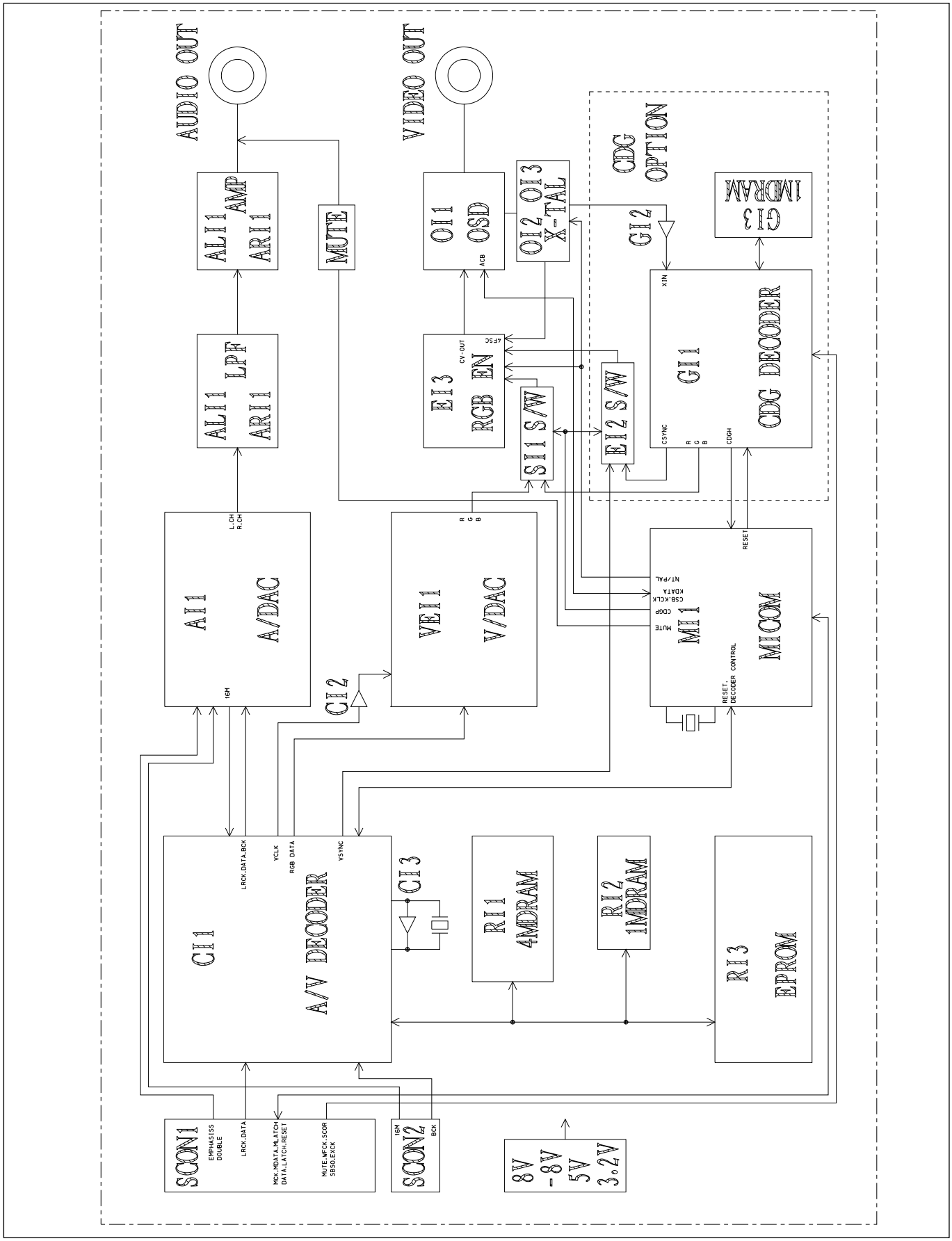
6-1 Cassette Deck



6-2 CD

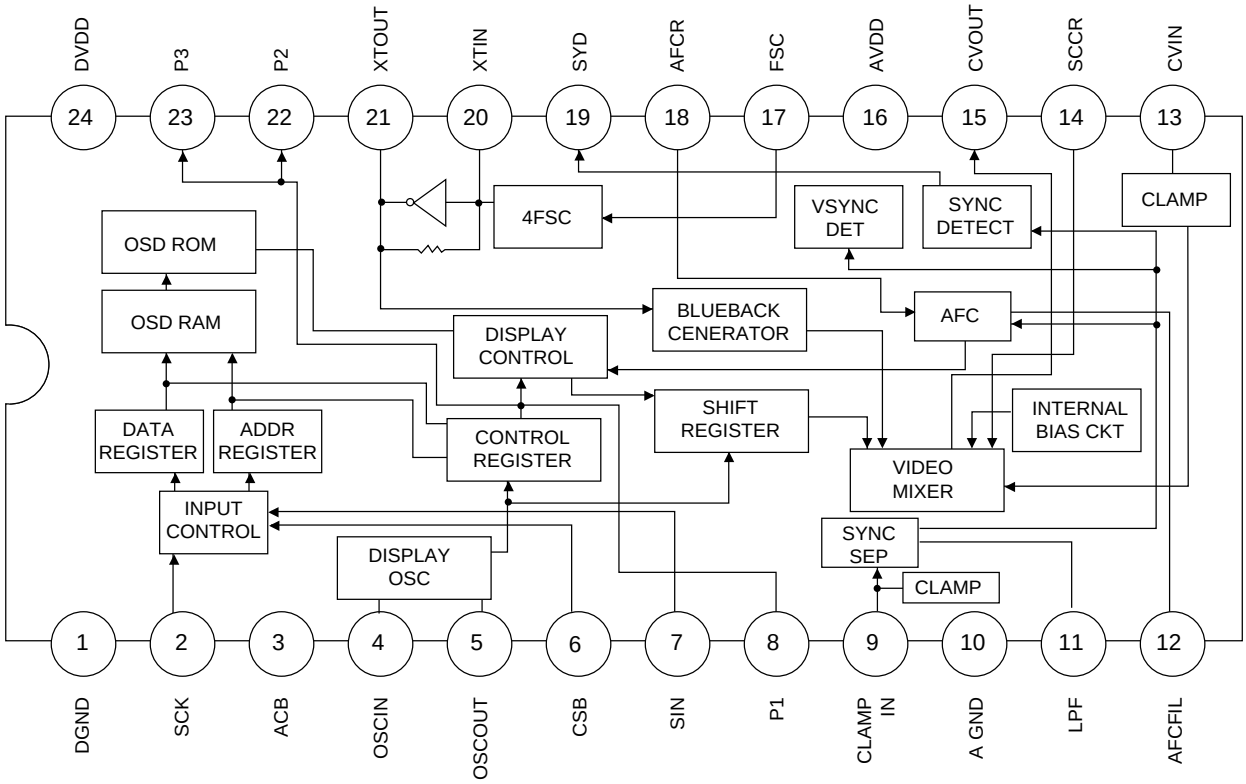

DIGITAL SIGNAL PROCESSOR (CXD2500BQ.WIC02)
VIDEO-CD DATA
WCW4
TO VIDEO-CD BOARD
VIDEO-CD INTERFACE SIGNAL
CD CONTROL SIGNAL
EFM & CLV SERVO SIGNAL
SERVO SIGNAL
WCW2
FROM TAPE BOARD (MICOM)
ANALOG SERVO SIGNAL PROCESSOR (KA9220 . WIC01)
ACTUATOR & SERVO MOTOR DRIVE (KA9258 . WIC03)
MECHA CONTROL MOTOR DRIVE (LB1649)
SW & SENSOR OUTPUT
SOURCE SIGNAL(A.B.C.D.E.F)
ACTUATOR CTRL. SERVO SIGNAL
MOTOR CTRL. SERVO SIGNAL
MECHANISM CTRL. SIGNAL
CDP MECHANISM
P/U DRIVE UNIT
LASER DIODE
PHOTO DIODE
FOCUS COIL
TRACKING COIL
SPINDLE MOTOR
FEED MOTOR
SW. & SENSOR
OPEN/CLOSE SW.
UP/DOWN SW.
UNLOAD LMT. SW.
D.CASE LMT. SW.
CHUCK SW.
D.CASE P.SNS
LD.PLATE P.SNS
8Cm P.SNS
MOTOR & SOLENOID
UP/DOWN MOTOR
LOADING MOTOR
SOLENOID

6-3 Video CD

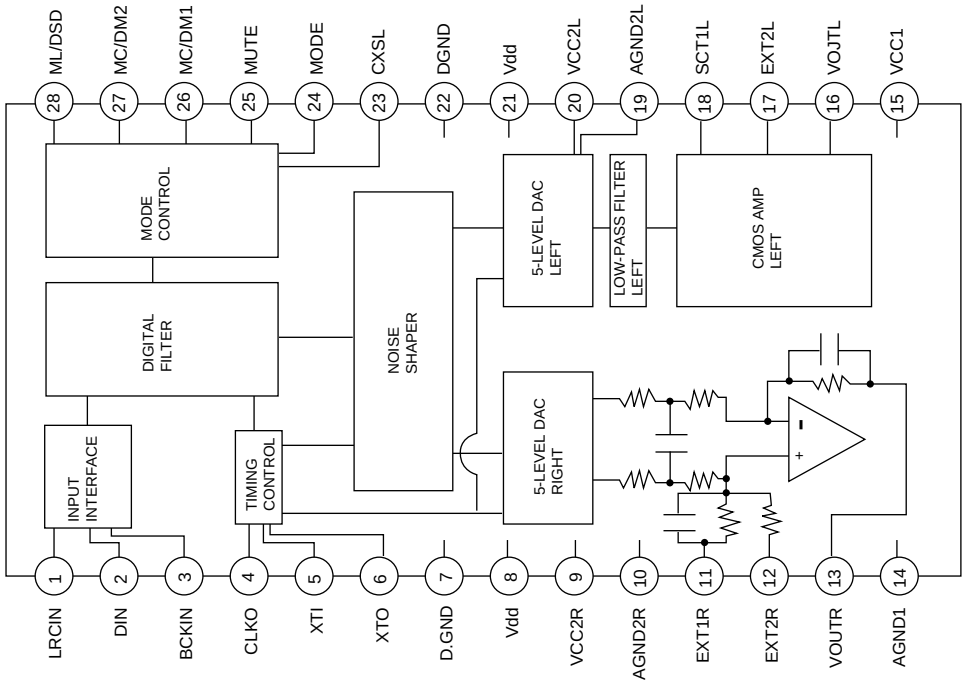

AUDIO OUT
VIDEO OUT
CDG OPTION
ALI1 AMP ARI1
MUTE
OI1 OSD
OI2 OI3 X-TAL
GI2
GI3 IMDRAM
ALI1 LPF ARI1
EI3 RGB EN
SI1 S/W
EI2 S/W
GI1 CDG DECODER
AI1 A/DAC
VEI1 V/DAC
CI2
MI1 MICOM
CI1 A/V DECODER
CI3
RI1 4MDRAM
RI2 1MDRAM
RI3 EPROM
SCON1
SCON2
8V
-8V
5V
3.2V

6-4 IC & TR Internal Diagrams

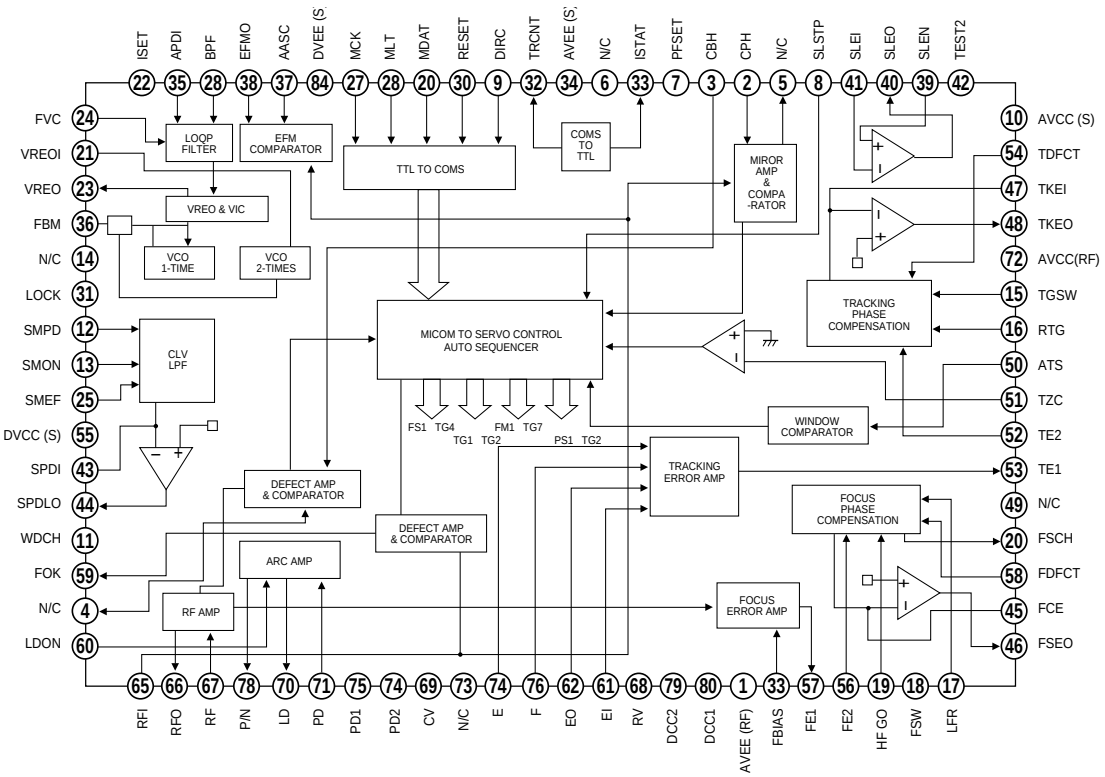
KS5514 : OI1



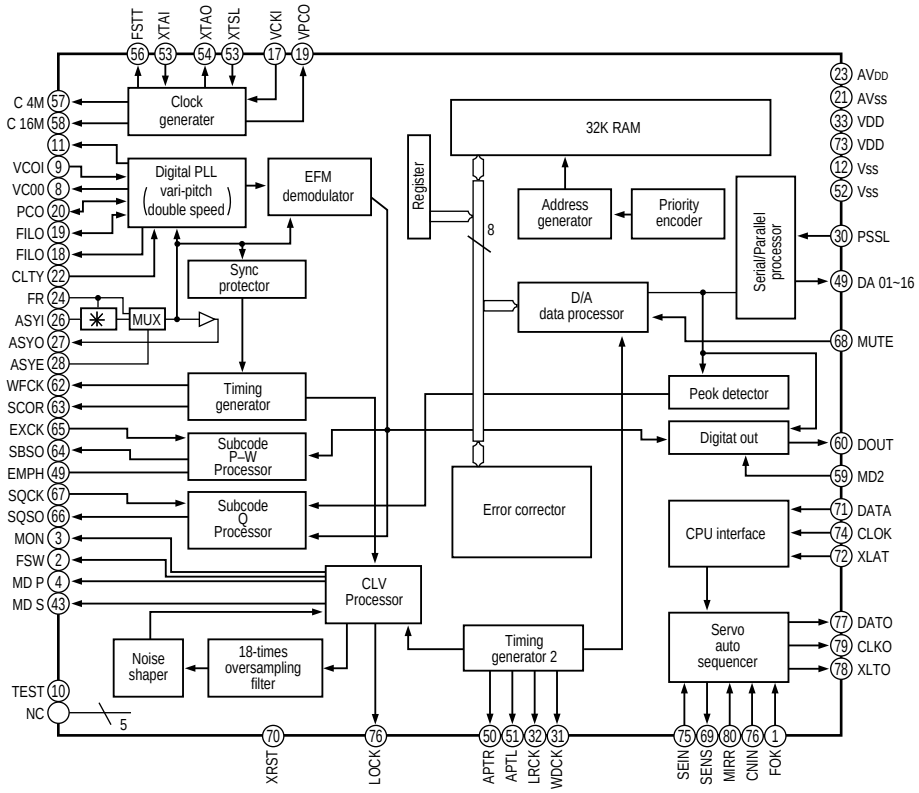
PCM1710U : AI1



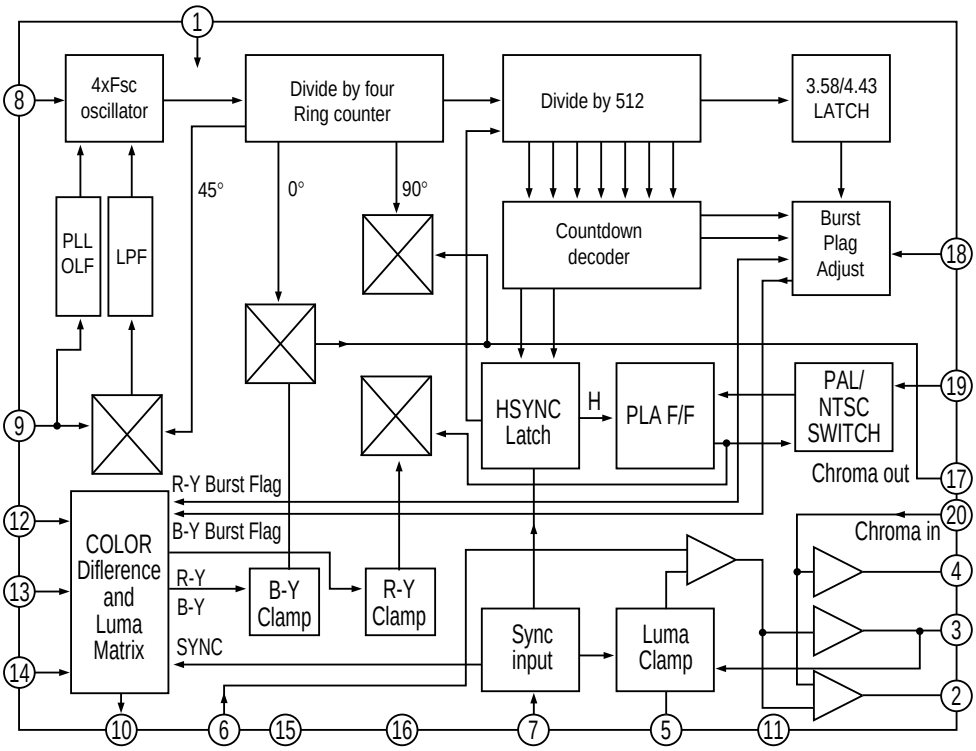
KA9220 : WIC01



CXD2500BQ : WIC02



MC13077 : EI1


1
8
4xFsc oscillator
Divide by four Ring counter
Divide by 512
3.58/4.43 LATCH
45°
0°
90°
PLL OLF
LPF
Countdown decoder
Burst Plag Adjust
18
9
HSYNC Latch
H
PLA F/F
PAL/ NTSC SWITCH
19
Chroma out
17
R-Y Burst Flag
12
B-Y Burst Flag
20
Chroma in
COLOR Diflerence and Luma Matrix
13
R-Y
B-Y
B-Y Clamp
R-Y Clamp
4
Sync input
Luma Clamp
3
14
SYNC
2
10
6
15
16
7
5
11

6-5 µ-com(LC86624-XXXX) : UIC1

No.	Port	Name	I/O	Description
1	P52	EEP_DI	I	EEPROM
2	PWM 1	EEP_DO	O	EEPROM/EXPIC DATA OUT
3	P20	EEP_CL	O	EEPROM CLOCK
4	P21	EEP_CE	O	EEPROM CE/MLATCH:MICOM → VCD
5	P22	EXP_CL	O	EXPANDER CLOCK
6	P23	EXP_CE	O	EXPANDER CHIP ENABLE
7	P24	A/SOL	O	A DECK SOLENOID
8	P25	MDATA	O	MICOM VCD
9	P26	DATA	I	VCD MICOM
10	P27	LATCH	I	VCD MICOM
11	TEST	TEST1	O	NO USE
12	RES	RESET	I	MICOM RESET
13	XT1	XT1	I	NO USE
14	XT2	XT2	O	NO USE
15	VSS	GND		
16	CF 1	CF1	I	12MHz OSC IN
17	CF 2	CF2	O	12MHz OSC OUT
18	VDD	VDD		
19	P80	CLOCK	I	VCD MICOM
20	P81	AMPS	I	MUSIC IN PORT in AMPS
21	P82	A/HALL	I	A DECK HALL SENSE
22	P83	A/HALF	I	A DECK TAPE IN
23	P84	A/MODE	I	A PLAY SENSE
24	P85	KEY 1	I	1+6 KEY AD INPUT
25	P86	KEY 2	I	CD AD KEY INPUT
26	P87	KEY 3	I	DECK AD KEY INPUT
27	P70	SCOR	I	SCOR INTERRUPT
28	P71	SYS_CE	I	SYSTEM CONTROL ENABLE
29	P72	P SENS	I	POWER OFF SENSE
30	P73	OPTION	I	OPTION PORT
31	S0	G1	O	VFD GRID 1
32	S1	G2	O	VFD GRID 2
33	S2	G3	O	VFD GRID 3
34	S3	G4	O	VFD GRID 4
35	S4	G5	O	VFD GRID 5
36	S5	G6	O	VFD GRID 6
37	S6	G7	O	VFD GRID 7
38	S7	G8	O	VFD GRID 8
39	S8	G9	O	VFD GRID 9
40	S9	G10	O	VFD GRID 10
41	S10	G11	O	VFD GRID 11
42	S11	G12	O	VFD GRID 12
43	S12	G13	O	VFD GRID 13
44	S13	G14	O	VFD GRID 14
45	S14	G15	O	VFD GRID 15
46	S15	G16	O	VFD GRID 16
47	VDVP	VDD		VFD VDD
48	VP	VPP		-32V
49	S16	S1		VFD SEG1

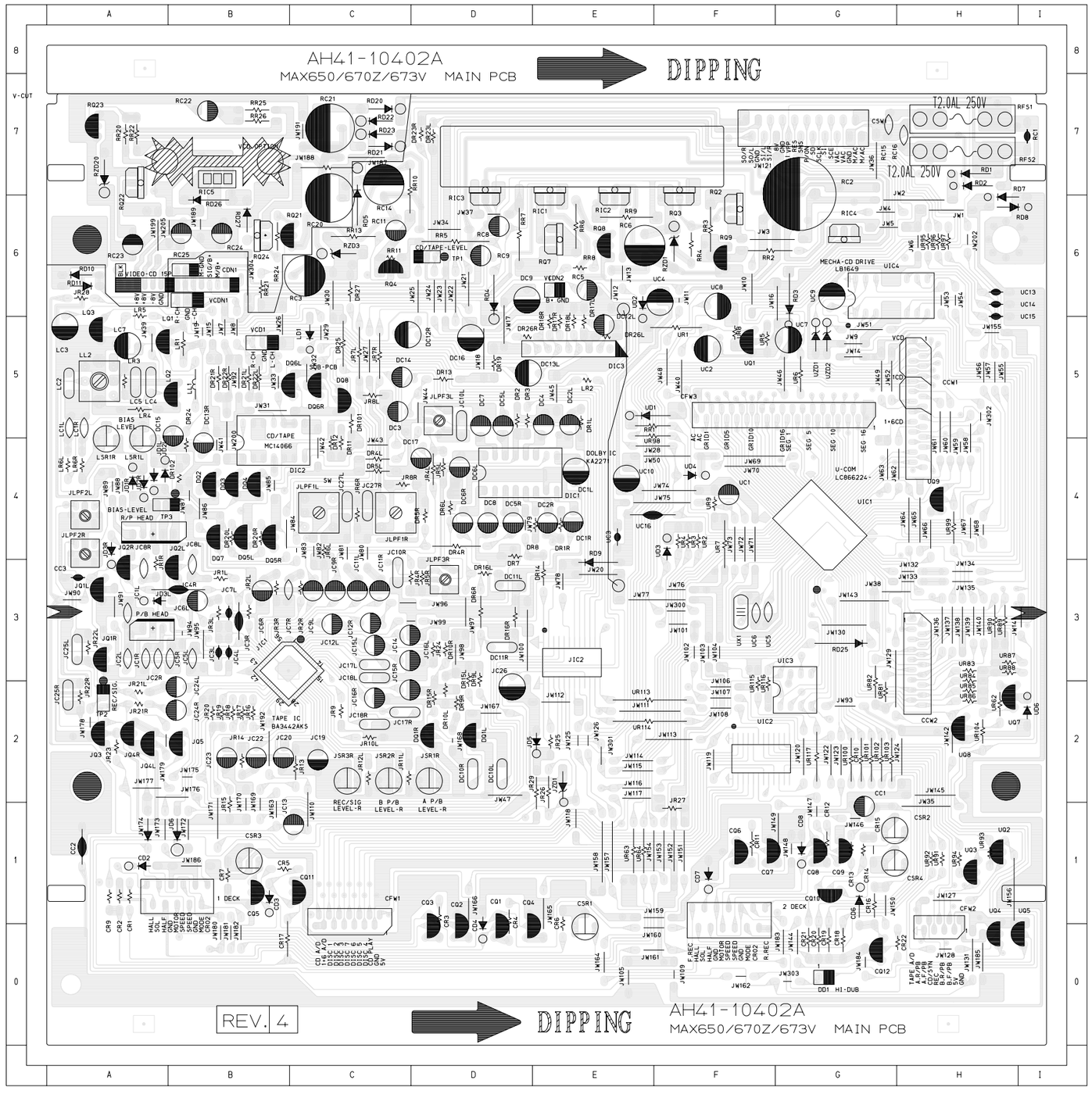
No.	Port	Name	I/O	Description
50	S17	S2	O	VFD SEG2
51	S18	S3	O	VFD SEG3
52	S19	S4	O	VFD SEG4
53	S20	S5	O	VFD SEG5
54	S21	S6	O	VFD SEG6
55	S22	S7	O	VFD SEG7
56	S23	S8	O	VFD SEG8
57	S24	S9	O	VFD SEG9
58	S25	S10	O	VFD SEG10
59	S26	S11	O	VFD SEG11
60	S27	S12	O	VFD SEG12
61	S28	S13	O	VFD SEG13
62	S29	S14	O	VFD SEG14
63	S30	S15	O	VFD SEG15
64	S31	S16	O	VFD SEG16
65	P00	MUTE	O	DSP MUTE
66	P01	LATCH	O	CD DSP/SSP LATCH
67	P02	DATA	O	CD DSP/SSP DATA
68	P03	CLOCK	O	CD DSP/SSP CLOCK
69	P04	OPN_SW	I	TRAY OPEN LIMIT SW
70	P05	CLS_SW	I	TRAY CLOSE LIMIT SW
71	P06	FOK	I	FOCUS OK
72	P07	GFS	I	CONSTANT VELOCITY ON
73	P10	LDON	O	LDON/XRST/VCD RESET
74	P11	SUBQ	I	SUBQ DATA INPUT
75	P12	SQCK	O	SUBQ DATA INPUT CLOCK
76	P13	SYS_DO	O	SYSTEM COMM DATA
77	P14	SYS_DI	I	SYSTEM COMM DATA IN
78	P15	SYS_CL	I	SYSTEM COMM CLOCK
79	P16	ISTAT	I	SENSE
80	P17	OPENM	O	DOOR/PLATE OPEN MOTOR
81	P30	CLOSM	O	DOOR/PLATE CLOSE MOTOR
82	P31	CHUCKS	I	MISS CHUCKING SENSE
83	P32	DSCSNS	I	8/12 CM DISC SENSE
84	P33	SOLENO	O	SOLONOID
85	P34	CASEDN	O	DISC CASE/PU UNIT DN MOTOR
86	P35	CASEUP	O	DISC CASE/PU UNIT UP MOTOR
87	P36	PKDNSW	I	PU UNIT DOWN SW
88	P37	PKUPSW	I	PU UNIT UP SW
89	GND			
90	VDD			
91	P40	LOADPS	I	LOADING PLATE P.SENSOR
92	P41	UNLMTS	I	LOADING PLATE PLATE SW
93	P42	CASEPS	I	DISC CASE P.SENSOR
94	P43	CASELM	I	DISC CASE LIMIT SW
95	P44	R. REC	I	B DECK R.REC SW
96	P45	B/MODE	I	B DECK PLAY SENSE
97	P46	B/HALF	I	B DECK TAPE IN SW
98	P47	B/HALL	I	B DECK HALL
99	P50	F.REC	I	B DECK F.REC
100	P51	B/SOL	O	B DECK SOL

6-6 NJU3716 : JIC2

NO.	PORT	I/O	Operation	Remark
1	DUBBING	O	DUBBING MODE : L	ACTIVE 'L'
2	DB NR	O	DOLBY NR ON MODE : L	ACTIVE 'L'
3	REC MUTE	O	REC MUTE ON MOED : H	ACTIVE 'H'
4	A/B SELECTOR	O	A DECK MODE:L	ACTIVE 'H'
5	H/DUBBING	O	HI-DUBBING MODE : H	ACTIVE 'H'
6	GND			
7	CD OUTPUT	O	CD OPERATION MODE : L	ACTIVE 'L'
8	MUTE	O	LINE MUTE	ACTIVE 'H'
9	CD MUTE	O	CD AUDIO MUTE	ACTIVE 'H'
10	REC	O	REC MODE : L	ACTIVE 'L'
11	CD B+	O	TUNER OPERATION MODE : L	ACTIVE'L'
12	SO	O	SERIAL DATA OUTPUT	
13	EDATA	I	EXPANDER DATA INPUT	
14	ECLK	I	EXPANDER CLOCK INPUT	
15	ESTB	I	EXPANDER STROVE	
16	CLR	I	CLEAR SIGNAL INPUT	
17	A MOTOR	O	A DECK OPERATION MODE : H	ACTIVE 'H'
18	GND			
19	VIDEO ROM	O		
20	VIDEO EMPHA	O		
21		O		
22		O		
23	AB/PLAYBACK	O	A,B PLAY MODE : H	
24	VDD			

7. PCB Diagrams

7-1 Cassette Deck



*** RESISTOR ***

CR1 (A1)
CR10 (G2)
CR11 (F1)
CR12 (G1)
CR13 (G1)
CR14 (G1)
CR16 (G0)
CR17 (B0)
CR18 (G0)
CR19 (G0)
CR2 (A1)
CR20 (G0)
CR21 (G0)
CR22 (H0)
CR3 (D0)
CR4 (D0)
CR5 (C1)
CR6 (E1)
CR7 (B1)
CR9 (A1)
DR101 (C5)
DR102 (B4)
DR10L (D3)
DR10R (D3)
DR11 (C4)
DR12 (C4)
DR13 (D5)
DR14 (E3)
DR15L (D3)
DR15R (D2)
DR16L (D3)
DR16R (D3)
DR17L (E5)
DR17R (E5)
DR18L (E5)
DR18R (E5)
DR19 (D5)
DR1L (E5)
DR1R (E4)
DR2 (D5)
DR20L (B4)
DR20R (B4)
DR21L (B5)
DR21R (B5)
DR22L (B5)
DR22R (B5)
DR23L (D7)
DR23R (D7)
DR24 (B4)
DR25 (C5)
DR26L (E5)
DR26R (D5)
DR27 (C6)
DR3 (D5)
DR4L (C4)
DR4R (D4)
DR5L (C4)
DR5R (D4)
DR6L (D4)
DR6R (D3)
DR7 (D4)
DR8 (E4)
DR9L (D3)
DR9R (D2)
JR10L (C2)
JR11L (C2)
JR12L (C2)
JR13 (C2)
JR14 (B2)
JR15 (B2)
JR16 (B2)
JR17 (B2)
JR18 (B2)
JR19 (B2)
JR1L (B3)
JR1R (A3)
JR20 (B2)
JR21L (A2)
JR21R (A2)
JR22L (A3)
JR22R (A2)
JR23 (A2)
JR24 (D3)
JR25 (E2)
JR26 (E1)
JR27 (F1)
JR28 (A6)
JR29 (E2)
JR2L (B3)
JR2R (C3)
JR3L (B3)
JR3R (B3)
JR4L (D4)
JR4R (D3)
JR5L (D4)
JR5R (D3)
JR6L (C3)
JR6R (C4)
JR7L (C5)
JR7R (C5)
JR8L (C5)
JR8R (C4)
JR9 (C2)
JW188 (C7)
LR1 (B5)
LR2 (E5)
LR3 (A5)
LR4 (A5)
LR5 (A6)
LR6L (A4)
LR6R (A4)
RR1 (E5)
RR10 (C6)
RR11 (C6)
RR13 (C6)
RR2 (F6)
RR20 (A7)
RR21 (B6)
RR22 (A7)
RR24 (B6)
RR25 (B7)
RR26 (B7)
RR3 (F6)
RR4 (F6)
RR5 (D6)
RR6 (E6)
RR7 (D6)
RR8 (E6)
RR9 (E6)
UR1 (E5)
UR100 (G2)
UR101 (G2)
UR102 (G2)
UR103 (G2)
UR104 (H2)
UR113 (E2)
UR114 (E2)
UR115 (F2)
UR116 (F2)
UR117 (G2)
UR2 (F4)
UR3 (F4)
UR4 (F4)
UR5 (F5)
UR6 (G5)
UR62 (H2)
UR63 (E1)
UR64 (E1)
UR7 (F3)
UR8 (F5)
UR81 (G2)
UR82 (G2)
UR83 (H3)
UR84 (H3)
UR85 (H2)
UR86 (H2)
UR87 (H3)
UR88 (H3)
UR89 (H3)
UR9 (F4)
UR90 (H3)
UR91 (H1)
UR92 (H1)
UR93 (H1)
UR94 (H1)
UR95 (H6)
UR96 (H6)
UR97 (H6)
UR98 (E5)
UR99 (H4)

*** CONDENSER ***

CC1 (G1)
CC2 (A1)
CC3 (A3)
DC10L (D2)
DC10R (D2)
DC11L (D3)
DC11R (D3)
DC12L (E5)
DC12R (D5)
DC13L (E5)
DC13R (B5)
DC14 (D5)
DC15 (B5)
DC16 (D5)
DC17 (D4)
DC1L (E4)
DC1R (E4)
DC2L (E5)
DC2R (E4)
DC3 (C5)
DC4 (E5)
DC5L (D5)
DC5R (D4)
DC6L (D4)
DC6R (D4)
DC7 (D5)
DC8 (D4)
DC9 (D6)
JC10L (D5)
JC10R (C3)
JC11L (C3)
JC11R (C3)
JC12L (C3)
JC12R (C3)
JC13 (C1)
JC14 (C3)
JC15L (C3)
JC15R (C2)
JC16L (C3)
JC16R (C2)
JC17L (C3)
JC17R (D2)
JC18L (C3)
JC18R (C2)
JC19 (C2)
JC1L (A3)
JC1R (A3)
JC20 (B2)
JC22 (B2)
JC23 (B2)
JC24L (B2)
JC24R (B2)
JC25L (A3)
JC25R (A2)
JC26 (D3)
JC27L (C4)
JC27R (C4)
JC2L (A3)
JC2R (A3)
JC3L (B3)
JC3R (B3)
JC4L (B3)
JC4R (B3)
JC5L (B3)
JC5R (B3)
JC6L (B3)
JC6R (B3)
JC7L (B3)
JC7R (B3)
JC8L (B3)
JC8R (A3)
JC9L (C3)
JC9R (C3)
LC1L (A5)
LC1R (A5)
LC2 (A5)
LC3 (A6)
LC4 (A5)
LC5 (A5)
LC7 (A5)
RC1 (I7)
RC11 (C6)
RC14 (C7)
RC15 (G7)
RC16 (H7)
RC2 (G7)
RC20 (C6)
RC21 (C7)
RC22 (B7)
RC23 (A6)
RC24 (B6)
RC25 (B6)
RC3 (C6)
RC5 (E6)
RC6 (E6)
RC8 (D6)
RC9 (D6)
UC1 (F4)
UC10 (E4)
UC13 (H6)
UC14 (H6)
UC15 (H6)
UC16 (E4)
UC2 (F5)
UC3 (E4)
UC4 (F6)
UC5 (F3)
UC6 (F3)
UC7 (G5)
UC8 (F6)
UC9 (G6)

*** DIODE ***

CD2 (A1)
CD3 (B1)
CD4 (D0)
CD6 (G1)
CD7 (F1)
CD8 (G1)
JD1L (A4)
JD1R (A4)
JD2L (A4)
JD2R (A4)
JD3L (A3)
JD3R (A3)
JD5 (E2)
JD6 (B1)
JW174 (A1)
JZD1 (E2)
LD1 (C5)
RD1 (H7)
RD10 (A6)
RD11 (A6)
RD2 (H7)
RD20 (C7)
RD21 (C7)
RD22 (C7)
RD23 (C7)
RD25 (G3)
RD26 (B6)
RD27 (B6)
RD3 (G5)
RD4 (D5)
RD5 (C7)
RD7 (H6)
RD8 (I6)
RD9 (E3)
RZD1 (F6)
RZD20 (A7)
RZD3 (C6)
UD1 (E5)
UD2 (E5)
UD3 (F4)
UD4 (F4)
UD6 (I2)
UZD1 (G5)
UZD2 (G5)

*** TR ***

CQ1 (D1)
CQ10 (G1)
CQ11 (C1)
CQ12 (G0)
CQ2 (D1)
CQ3 (D1)
CQ4 (D1)
CQ5 (B1)
CQ6 (F1)
CQ7 (F1)
CQ8 (G1)
CQ9 (G1)
DQ1L (D2)
DQ1R (D2)
DQ2 (B4)
DQ3 (B4)
DQ4 (B4)
DQ5L (B4)
DQ5R (B4)
DQ6L (C5)
DQ6R (C5)
DQ7 (B4)
DQ8 (C5)
JQ1L (A3)
JQ1R (A3)
JQ2L (B3)
JQ2R (A3)
JQ3 (A2)
JQ4L (A2)
JQ4R (A2)
JQ5 (B2)
LQ1 (B5)
LQ2 (B5)
LQ3 (A5)
RQ21 (C6)
RQ23 (A7)
RQ4 (C6)
RQ8 (E6)
RQ9 (F6)
UQ1 (F5)
UQ2 (H1)
UQ3 (H1)
UQ4 (H0)
UQ5 (I0)
UQ7 (H2)
UQ8 (H2)
UQ9 (H4)

*** IC&WAFER ***

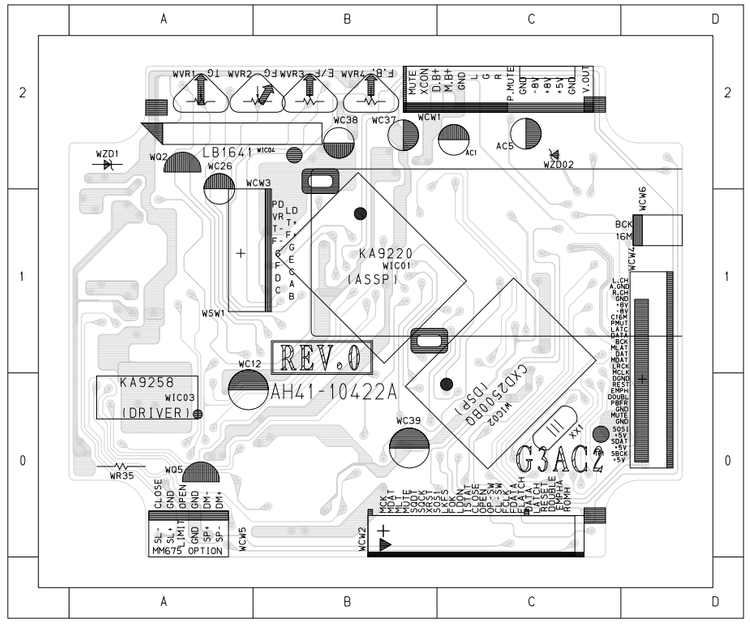
CDN1 (B6)
DIC1 (D4)
DIC2 (B4)
DIC3 (E5)
HI-DUB (G0)
P/B HEAD (A3)
R/P HEAD (A4)
TP2 (A2)
TP3 (A4)
UIC1 (G4)
UIC3 (G2)
VCD1 (B5)
VCDN1 (B6)
VCDN2 (E6)

*** CHIP ***

JIC1 (B3)
JIC2 (E3)
UIC1 (G4)
UIC2 (F2)

7-2 CD

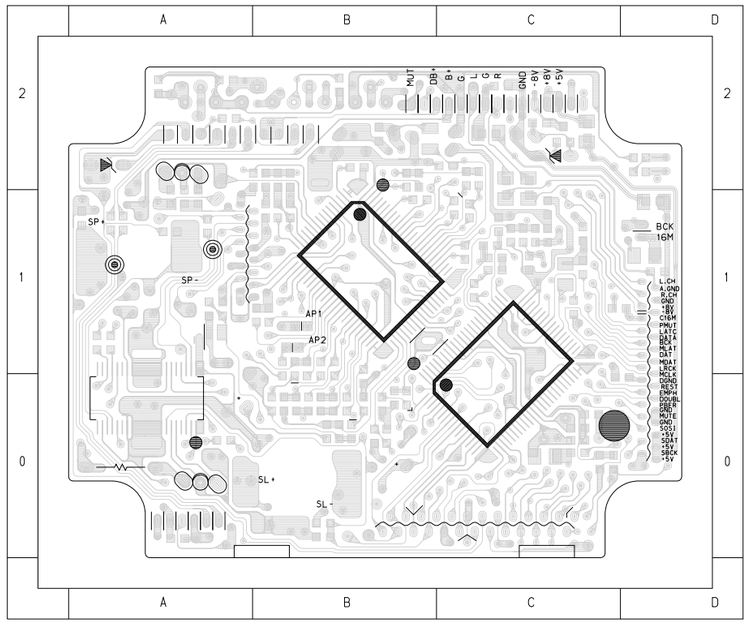
7-1-1 Top View



*** CHIP ***

AC2 (C1)	WB4 (D1)	WC31 (D2)	WR16 (B0)
AC3 (B2)	WB5 (D1)	WC32 (B0)	WR17 (B0)
AC4 (C2)	WB6 (C2)	WC33 (B0)	WR18 (B1)
AJW1 (A0)	WB7 (C2)	WC34 (C0)	WR19 (B1)
AJW10 (C1)	WB8 (C2)	WC35 (C0)	WR2 (A1)
AJW11 (D1)	WC1 (B2)	WC36 (C0)	WR21 (B2)
AJW12 (C0)	WC10 (B0)	WC4 (C2)	WR22 (B2)
AJW13 (C2)	WC11 (B0)	WC40 (A2)	WR23 (B2)
AJW14 (C2)	WC13 (B0)	WC44 (C0)	WR24 (B2)
AJW15 (C2)	WC14 (B0)	WC5 (C1)	WR25 (A1)
AJW16 (C2)	WC15 (B0)	WC6 (B2)	WR26 (A1)
AJW17 (C2)	WC16 (B0)	WC7 (C1)	WR27 (A1)
AJW18 (D1)	WC17 (B1)	WC8 (C1)	WR29 (C1)
AJW2 (A1)	WC18 (B1)	WC9 (B0)	WR3 (C2)
AJW3 (A1)	WC19 (A2)	WIC01 (B1)	WR30 (C1)
AJW4 (A1)	WC2 (B2)	WIC02 (C0)	WR31 (C1)
AJW5 (A1)	WC20 (B1)	WIC03 (A0)	WR32 (C1)
AJW6 (A0)	WC21 (A2)	WJW1 (B2)	WR33 (B1)
AJW7 (A1)	WC22 (B1)	WJW2 (A1)	WR34 (D2)
AJW8 (A1)	WC23 (B1)	WQ10 (C2)	WR36 (C0)
AJW9 (C1)	WC24 (B1)	WR1 (B1)	WR37 (D0)
AWR1 (C2)	WC25 (B1)	WR10 (B0)	WR4 (C2)
AWR2 (C1)	WC27 (A1)	WR11 (B0)	WR5 (C1)
AWR3 (C1)	WC28 (B2)	WR12 (B0)	WR6 (C1)
WB1 (C0)	WC29 (C1)	WR13 (B0)	WR7 (C1)
WB2 (C1)	WC3 (C1)	WR14 (B0)	WR8 (B0)
WB3 (C2)	WC30 (C1)	WR15 (B0)	WR9 (B0)

7-2-2 Bottom View

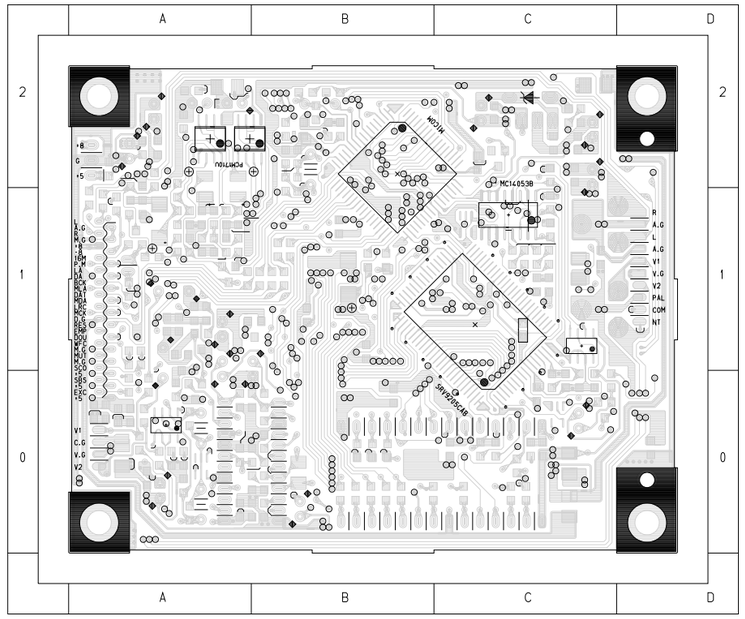


*** CHIP ***

AC2 (C1)	WB4 (D1)	WC31 (D2)	WR16 (B0)
AC3 (B2)	WB5 (D1)	WC32 (B0)	WR17 (B0)
AC4 (C2)	WB6 (C2)	WC33 (B0)	WR18 (B1)
AJW1 (A0)	WB7 (C2)	WC34 (C0)	WR19 (B1)
AJW10 (C1)	WB8 (C2)	WC35 (C0)	WR2 (A1)
AJW11 (D1)	WC1 (B2)	WC36 (C0)	WR21 (B2)
AJW12 (C0)	WC10 (B0)	WC4 (C2)	WR22 (B2)
AJW13 (C2)	WC11 (B0)	WC40 (A2)	WR23 (B2)
AJW14 (C2)	WC13 (B0)	WC44 (C0)	WR24 (B2)
AJW15 (C2)	WC14 (B0)	WC5 (C1)	WR25 (A1)
AJW16 (C2)	WC15 (B0)	WC6 (B2)	WR26 (A1)
AJW17 (C2)	WC16 (B0)	WC7 (C1)	WR27 (A1)
AJW18 (D1)	WC17 (B1)	WC8 (C1)	WR29 (C1)
AJW2 (A1)	WC18 (B1)	WC9 (B0)	WR3 (C2)
AJW3 (A1)	WC19 (A2)	WIC01 (B1)	WR30 (C1)
AJW4 (A1)	WC2 (B2)	WIC02 (C0)	WR31 (C1)
AJW5 (A1)	WC20 (B1)	WIC03 (A0)	WR32 (C1)
AJW6 (A0)	WC21 (A2)	WJW1 (B2)	WR33 (B1)
AJW7 (A1)	WC22 (B1)	WJW2 (A1)	WR34 (D2)
AJW8 (A1)	WC23 (B1)	WQ10 (C2)	WR36 (C0)
AJW9 (C1)	WC24 (B1)	WR1 (B1)	WR37 (D0)
AWR1 (C2)	WC25 (B1)	WR10 (B0)	WR4 (C2)
AWR2 (C1)	WC27 (A1)	WR11 (B0)	WR5 (C1)
AWR3 (C1)	WC28 (B2)	WR12 (B0)	WR6 (C1)
WB1 (C0)	WC29 (C1)	WR13 (B0)	WR7 (C1)
WB2 (C1)	WC3 (C1)	WR14 (B0)	WR8 (B0)
WB3 (C2)	WC30 (C1)	WR15 (B0)	WR9 (B0)

7-3 Video CD

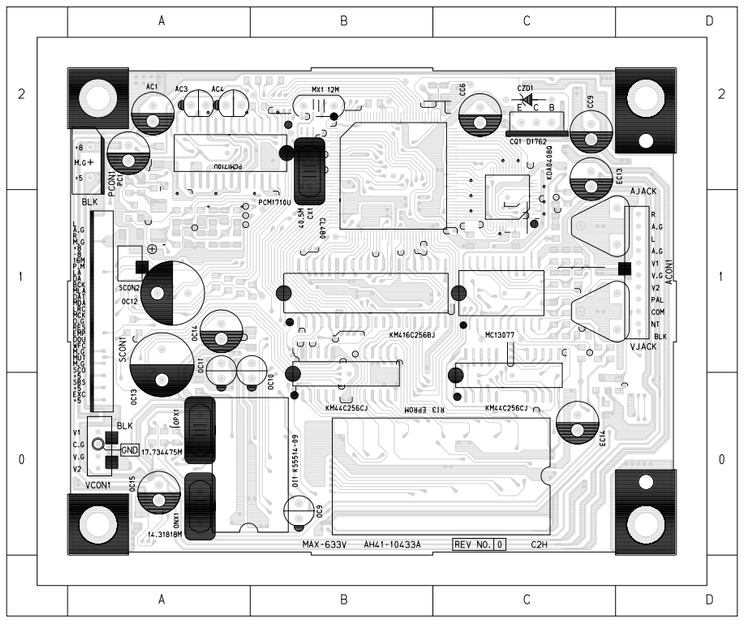
7-3-1 Top View



*** CHIP ***

AB1 (A2)	AQ2 (A1)	CC5 (B2)	EC10 (C1)	ER8 (C1)	MPJ1 (C2)	OPR1 (A0)	RC3 (B1)	VEC2 (C1)
AC2 (A2)	ARC1 (A2)	CC7 (B2)	EC11 (C1)	ER9 (C1)	MR1 (B2)	OQ1 (A0)	RC4 (B1)	VEC3 (C1)
AI1 (A2)	ARC2 (A1)	CC8 (C2)	EC12 (C1)	GC1 (C0)	MR2 (B1)	OQ2 (A1)	RI1 (B1)	VEI1 (C1)
AL1 (A2)	ARC3 (A1)	CI1 (B2)	EC15 (C0)	GC2 (C0)	MR3 (B1)	OQ3 (A1)	RI2 (B0)	VJ1 (A0)
ALC1 (A2)	ARC4 (A1)	CI2 (C1)	EC2 (C1)	GC3 (C0)	MR4 (B1)	OR1 (B0)	RJ1 (B1)	VJ2 (A0)
ALC2 (A1)	ARC5 (A1)	CI3 (B2)	EC3 (C1)	GC4 (C0)	MR5 (B1)	OR10 (A0)	RJ256 (C0)	
ALC3 (A1)	ARC6 (A1)	CJ1 (C1)	EC4 (C1)	GI1 (C1)	MR6 (B1)	OR11 (A0)	RJ512 (C0)	
ALC4 (A1)	ARI1 (A2)	CJ2 (A1)	EC5 (C1)	GI2 (C0)	OC1 (A0)	OR12 (A0)	RR1 (C0)	
ALC5 (A1)	ARJ1 (A1)	CJ3 (A1)	EC6 (C2)	GI3 (C0)	OC16 (A0)	OR13 (B0)	RR10 (B0)	
ALC6 (A1)	ARQ1 (A1)	CR1 (B2)	EC7 (C1)	GJ1 (A1)	OC17 (A0)	OR2 (B0)	RR11 (C0)	
ALI1 (A2)	ARR1 (A1)	CR10 (C2)	EC8 (C1)	GJ2 (A1)	OC2 (B0)	OR3 (A0)	RR12 (C0)	
ALJ1 (A1)	ARR10 (A2)	CR11 (C2)	EC9 (C1)	GJ3 (A0)	OC3 (B0)	OR4 (B0)	RR13 (C0)	
ALJ2 (A2)	ARR11 (A2)	CR12 (B2)	EI1 (C1)	GJ4 (C1)	OC4 (A0)	OR5 (A0)	RR2 (B0)	
ALQ1 (A1)	ARR2 (A1)	CR13 (B2)	EI2 (C1)	GR1 (C2)	OC5 (B0)	OR6 (A1)	RR3 (B0)	
ALR1 (A1)	ARR3 (A1)	CR14 (B2)	EL1 (C1)	GR2 (C1)	OC6 (B0)	OR7 (A1)	RR4 (B0)	
ALR10 (A1)	ARR4 (A1)	CR15 (B2)	EQ1 (C0)	GR3 (C1)	OC7 (B0)	OR8 (A1)	RR5 (B0)	
ALR11 (A1)	ARR5 (A1)	CR16 (B1)	EQ2 (C0)	GR4 (C0)	OC8 (A0)	OR9 (A1)	RR6 (B0)	
ALR2 (A1)	ARR6 (A1)	CR17 (B2)	ER1 (C1)	GR5 (C0)	OD1 (B1)	PB1 (C2)	RR7 (B0)	
ALR3 (A1)	ARR7 (A1)	CR2 (B2)	ER10 (D0)	GR6 (C0)	OI2 (A0)	PC2 (A2)	RR8 (B0)	
ALR4 (A1)	ARR8 (A1)	CR3 (B2)	ER11 (C1)	JW1 (A0)	OI3 (A0)	PC3 (A2)	RR9 (B0)	
ALR5 (A1)	ARR9 (A1)	CR4 (B1)	ER12 (C0)	JW2 (D0)	OL1 (B0)	PC4 (A2)	SI1 (C1)	
ALR6 (A1)	AVJ1 (C1)	CR5 (B1)	ER2 (C1)	MC1 (B2)	OL2 (B1)	PC5 (A2)	SJ1 (A0)	
ALR7 (A1)	CC1 (B2)	CR6 (B2)	ER3 (C1)	MC2 (B2)	ONC1 (A0)	PR1 (A1)	SJ2 (A0)	
ALR8 (A1)	CC10 (C2)	CR7 (A1)	ER4 (C1)	MC3 (A1)	ONJ1 (A0)	RB1 (C0)	SJ3 (A0)	
ALR9 (A1)	CC2 (B2)	CR8 (A1)	ER5 (C1)	MD1 (C2)	ONR1 (A0)	RB2 (C0)	SJ4 (A0)	
AMGL1 (A1)	CC3 (B1)	CR9 (A1)	ER6 (C1)	MI1 (B2)	OPC1 (A0)	RC1 (C0)	VB1 (A0)	
AQ1 (A1)	CC4 (C2)	EC1 (C1)	ER7 (C1)	MNJ1 (C2)	OPJ1 (A0)	RC2 (B0)	VEC1 (C1)	

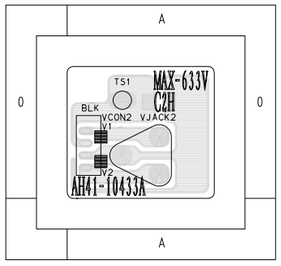
7-3-2 Bottom View



*** CHIP ***

AB1 (A2)	AQ2 (A1)	CC5 (B2)	EC10 (C1)	ER8 (C1)	MPJ1 (C2)	OPR1 (A0)	RC3 (B1)	VEC2 (C1)
AC2 (A2)	ARC1 (A2)	CC7 (B2)	EC11 (C1)	ER9 (C1)	MR1 (B2)	OQ1 (A0)	RC4 (B1)	VEC3 (C1)
AI1 (A2)	ARC2 (A1)	CC8 (C2)	EC12 (C1)	GC1 (C0)	MR2 (B1)	OQ2 (A1)	RI1 (B1)	VEI1 (C1)
AL1 (A2)	ARC3 (A1)	CI1 (B2)	EC15 (C0)	GC2 (C0)	MR3 (B1)	OQ3 (A1)	RI2 (B0)	VJ1 (A0)
ALC1 (A2)	ARC4 (A1)	CI2 (C1)	EC2 (C1)	GC3 (C0)	MR4 (B1)	OR1 (B0)	RJ1 (B1)	VJ2 (A0)
ALC2 (A1)	ARC5 (A1)	CI3 (B2)	EC3 (C1)	GC4 (C0)	MR5 (B1)	OR10 (A0)	RJ256 (C0)	
ALC3 (A1)	ARC6 (A1)	CJ1 (C1)	EC4 (C1)	GI1 (C1)	MR6 (B1)	OR11 (A0)	RJ512 (C0)	
ALC4 (A1)	ARI1 (A2)	CJ2 (A1)	EC5 (C1)	GI2 (C0)	OC1 (A0)	OR12 (A0)	RR1 (C0)	
ALC5 (A1)	ARJ1 (A1)	CJ3 (A1)	EC6 (C2)	GI3 (C0)	OC16 (A0)	OR13 (B0)	RR10 (B0)	
ALC6 (A1)	ARQ1 (A1)	CR1 (B2)	EC7 (C1)	GJ1 (A1)	OC17 (A0)	OR2 (B0)	RR11 (C0)	
ALI1 (A2)	ARR1 (A1)	CR10 (C2)	EC8 (C1)	GJ2 (A1)	OC2 (B0)	OR3 (A0)	RR12 (C0)	
ALJ1 (A1)	ARR10 (A2)	CR11 (C2)	EC9 (C1)	GJ3 (A0)	OC3 (B0)	OR4 (B0)	RR13 (C0)	
ALJ2 (A2)	ARR11 (A2)	CR12 (B2)	EI1 (C1)	GJ4 (C1)	OC4 (A0)	OR5 (A0)	RR2 (B0)	
ALQ1 (A1)	ARR2 (A1)	CR13 (B2)	EI2 (C1)	GR1 (C2)	OC5 (B0)	OR6 (A1)	RR3 (B0)	
ALR1 (A1)	ARR3 (A1)	CR14 (B2)	EL1 (C1)	GR2 (C1)	OC6 (B0)	OR7 (A1)	RR4 (B0)	
ALR10 (A1)	ARR4 (A1)	CR15 (B2)	EQ1 (C0)	GR3 (C1)	OC7 (B0)	OR8 (A1)	RR5 (B0)	
ALR11 (A1)	ARR5 (A1)	CR16 (B1)	EQ2 (C0)	GR4 (C0)	OC8 (A0)	OR9 (A1)	RR6 (B0)	
ALR2 (A1)	ARR6 (A1)	CR17 (B2)	ER1 (C1)	GR5 (C0)	OD1 (B1)	PB1 (C2)	RR7 (B0)	
ALR3 (A1)	ARR7 (A1)	CR2 (B2)	ER10 (D0)	GR6 (C0)	OI2 (A0)	PC2 (A2)	RR8 (B0)	
ALR4 (A1)	ARR8 (A1)	CR3 (B2)	ER11 (C1)	JW1 (A0)	OI3 (A0)	PC3 (A2)	RR9 (B0)	
ALR5 (A1)	ARR9 (A1)	CR4 (B1)	ER12 (C0)	JW2 (D0)	OL1 (B0)	PC4 (A2)	SI1 (C1)	
ALR6 (A1)	AVJ1 (C1)	CR5 (B1)	ER2 (C1)	MC1 (B2)	OL2 (B1)	PC5 (A2)	SJ1 (A0)	
ALR7 (A1)	CC1 (B2)	CR6 (B2)	ER3 (C1)	MC2 (B2)	ONC1 (A0)	PR1 (A1)	SJ2 (A0)	
ALR8 (A1)	CC10 (C2)	CR7 (A1)	ER4 (C1)	MC3 (A1)	ONJ1 (A0)	RB1 (C0)	SJ3 (A0)	
ALR9 (A1)	CC2 (B2)	CR8 (A1)	ER5 (C1)	MD1 (C2)	ONR1 (A0)	RB2 (C0)	SJ4 (A0)	
AMGL1 (A1)	CC3 (B1)	CR9 (A1)	ER6 (C1)	MI1 (B2)	OPC1 (A0)	RC1 (C0)	VB1 (A0)	
AQ1 (A1)	CC4 (C2)	EC1 (C1)	ER7 (C1)	MNJ1 (C2)	OPJ1 (A0)	RC2 (B0)	VEC1 (C1)	

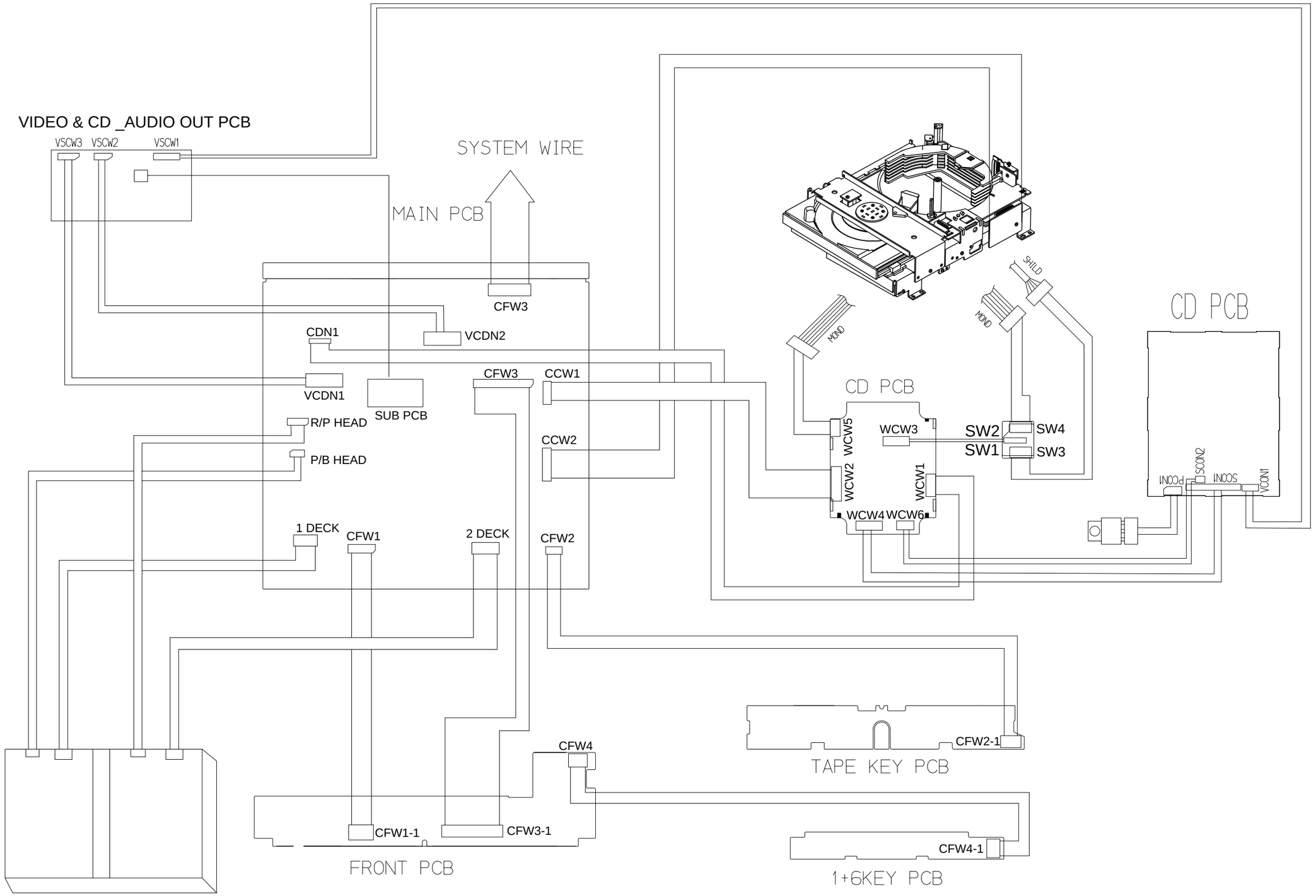
7-3-3 Video SUB



*** CHIP ***

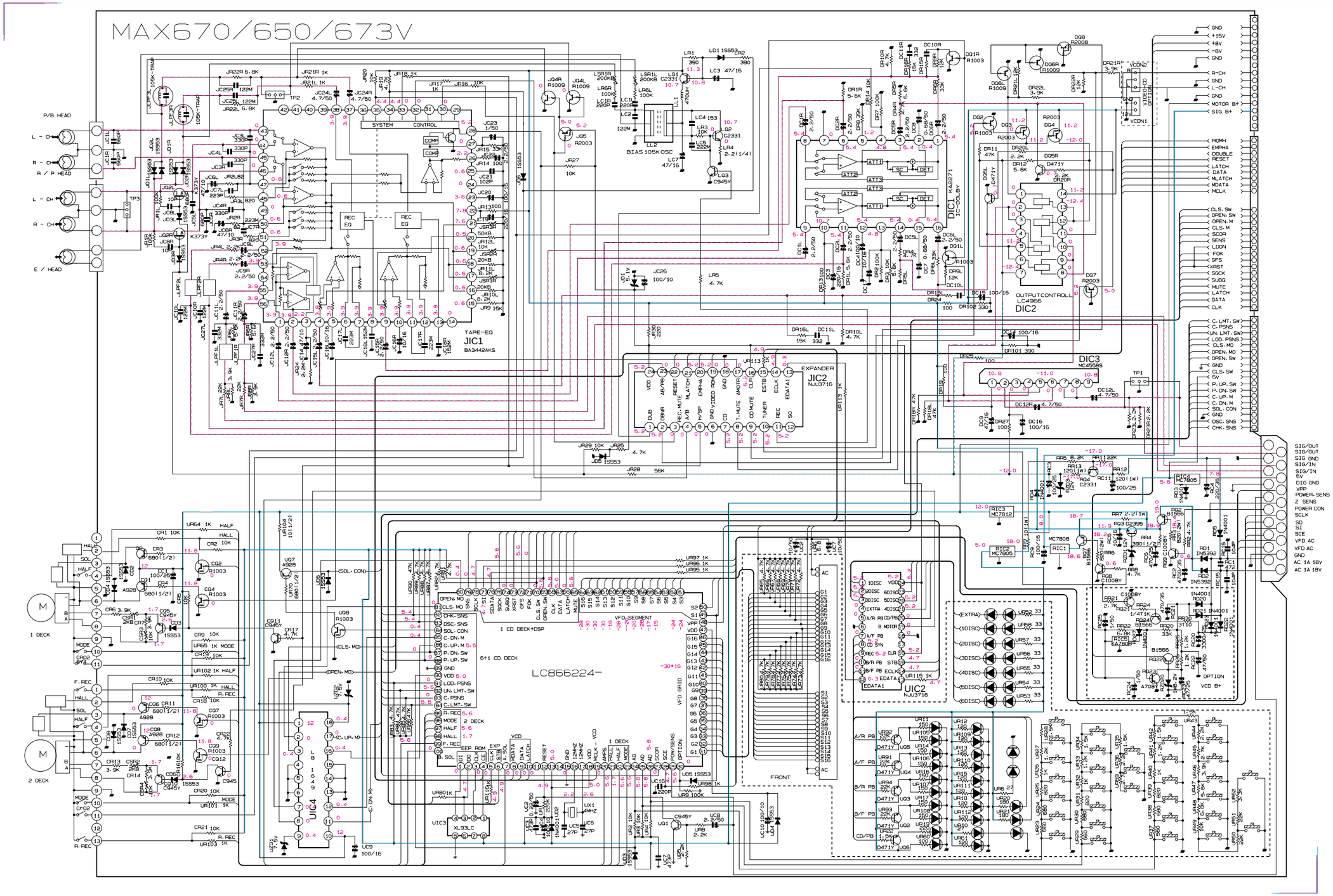
CHJ1 (A0)

8. Wiring Diagram

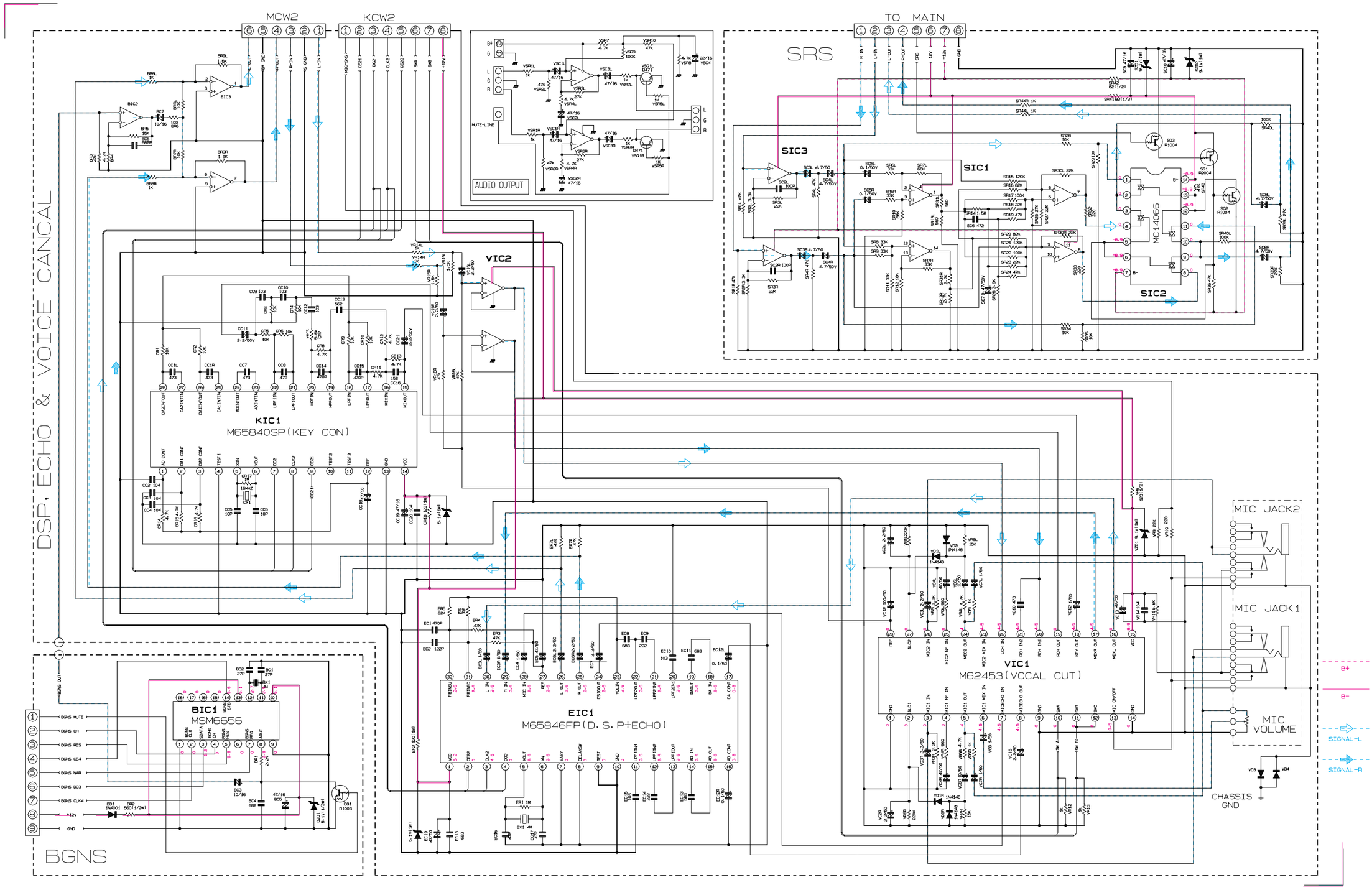


9. Schematic Diagrams

9-1 Cassette Deck



9-2 Option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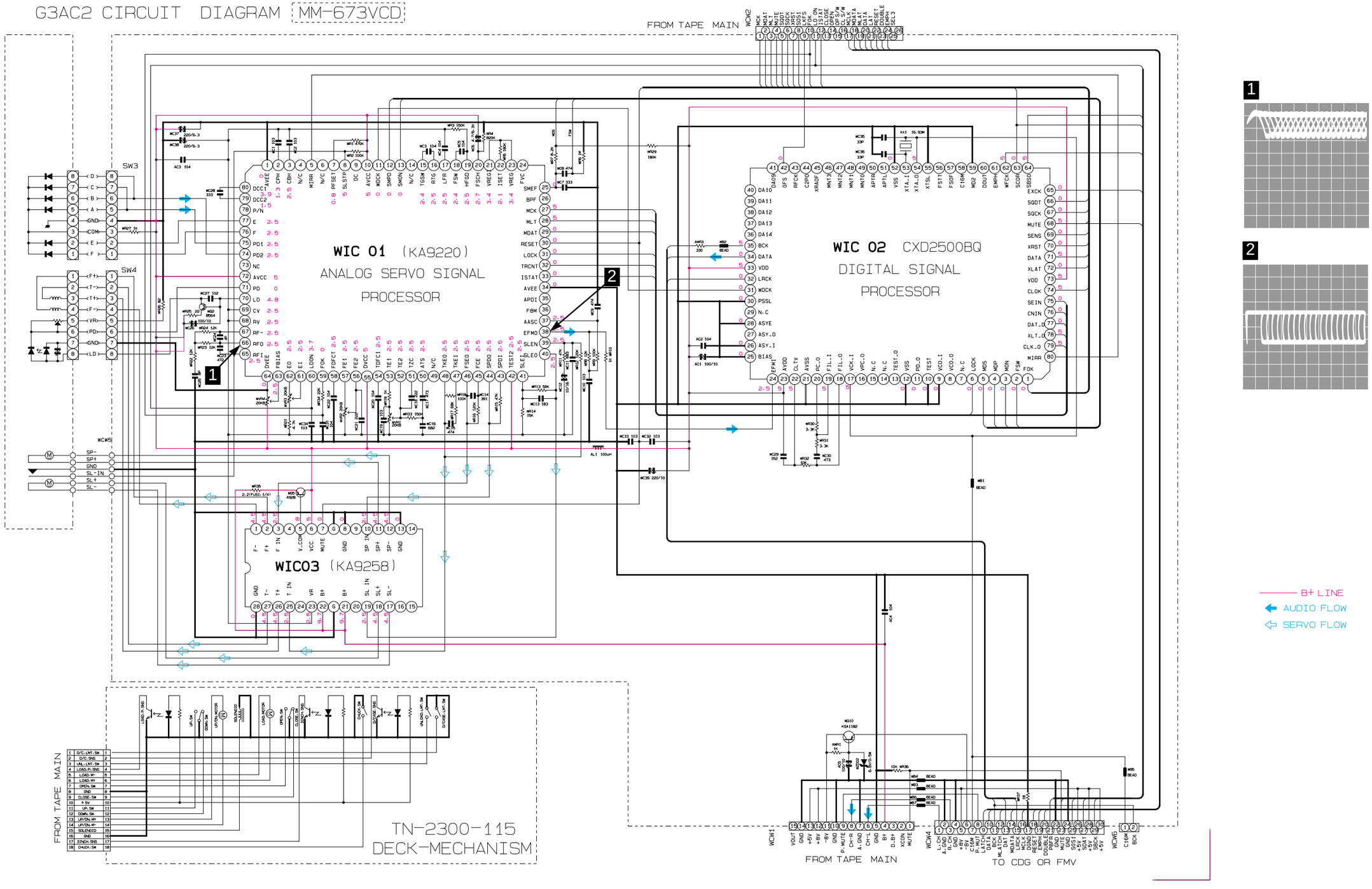
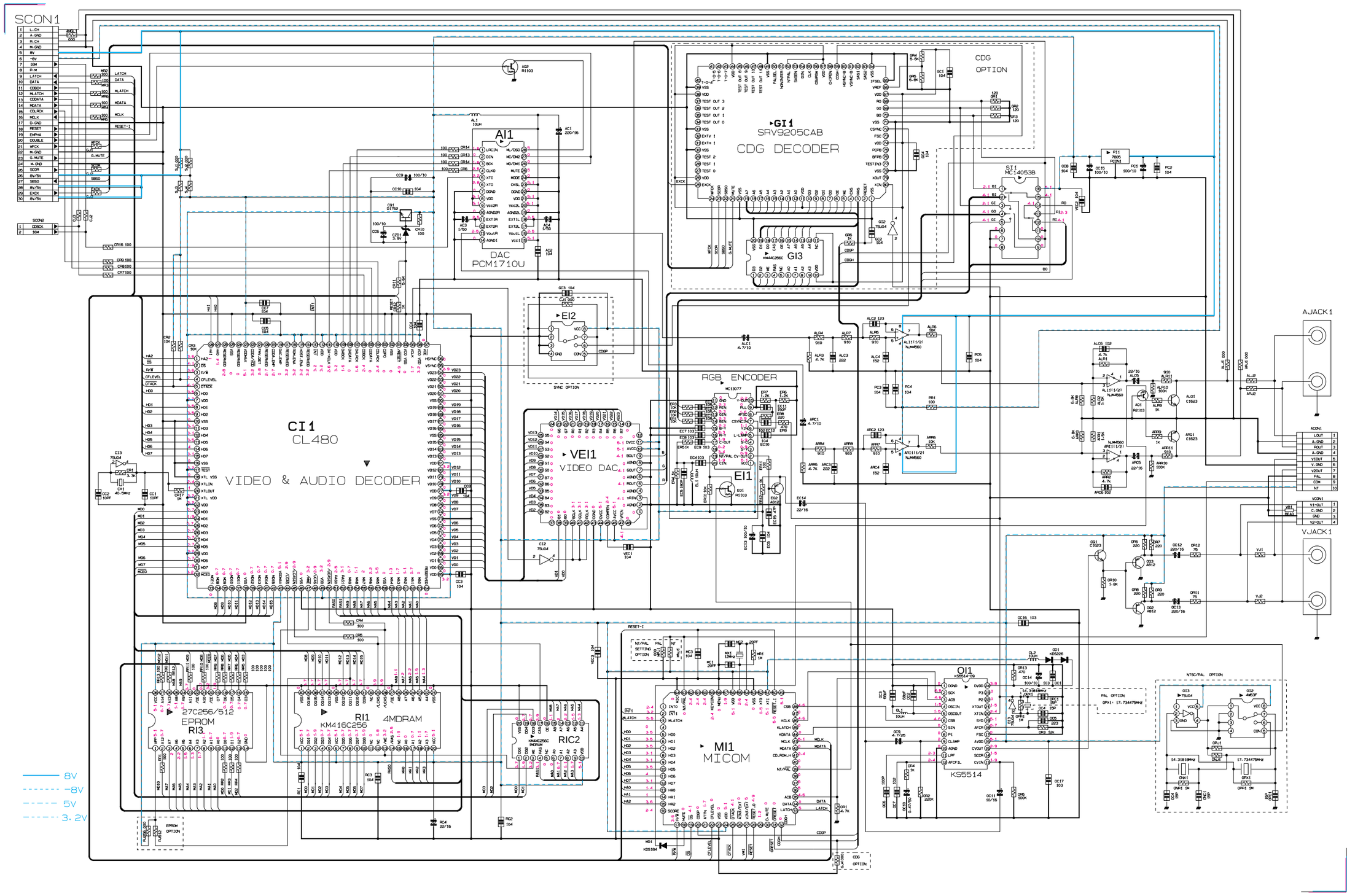
KCW2
TO MAIN
SRS
SIC3
SIC1
SIC2
MC14066
AUDIO OUTPUT
VIC2
KIC1
M65840SP(KEY CON)
EIC1
M65846FP(D.S.P+ECHO)
VIC1
M62453(VOCAL CUT)
BIC1
MSM6656
BGNS
DSP, ECHO & VOICE CANCAL
MIC JACK2
MIC JACK1
MIC VOLUME
CHASSIS GND
B+
B-
SIGNAL-L
SIGNAL-R

G3AC2 CIRCUIT DIAGRAM MM-673VCD



9-4 Video CD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CDG OPTION
GI1
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CDG DECODER
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MC14053B
PI1
7805
PCON1
AJACK1
VJACK1
AI1
DAC
PCM1710U
EI2
SYNC OPTION
RGB ENCODER
MC13077
VEI1
VIDEO DAC
EI1
CI1
CL480
VIDEO & AUDIO DECODER
RI3
27C256/512
EPROM
RI1
4MDRAM
KM416C256
RIC2
MI1
MICOM
OI1
KS5514
NTSC/PAL OPTION
PAL OPTION
8V
-8V
5V
3.2V